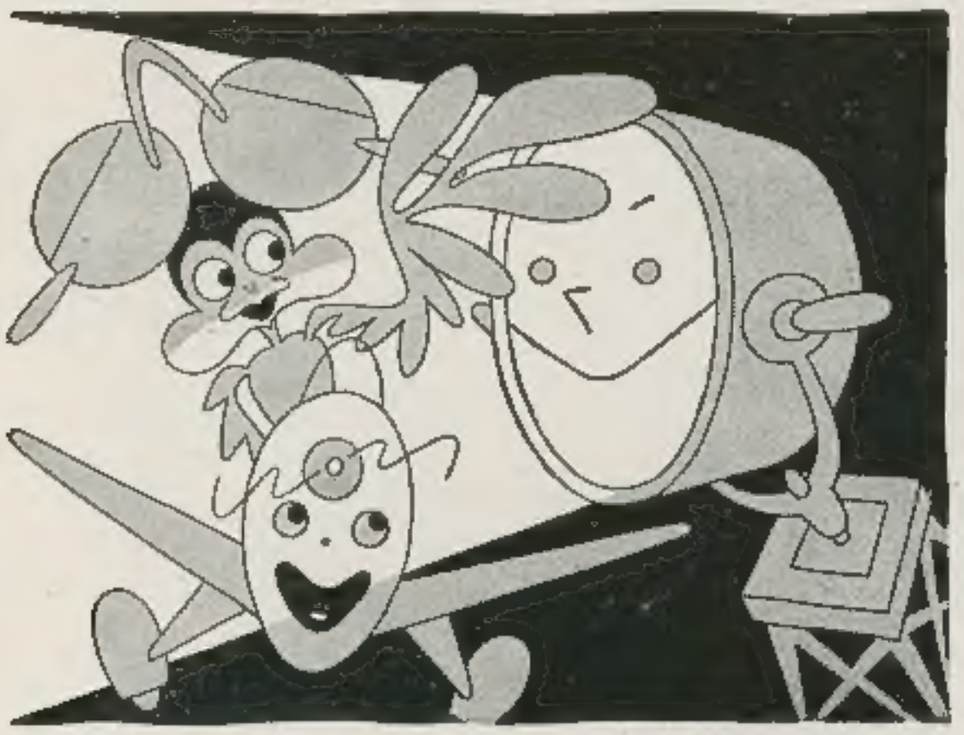
The Birdmen's Perch

Maybe you chaps weren't aware of it, but you came within an ace of losing those helpful airway beacons.



It's a fact, a discontinuance and disposal program was already under way by the CAA when the squawks began.

Even though the beacons aren't essential to the airlines, the CAA has now learned of their great importance to pilots of personal and small industrial planes who fly *without* all the latest navigational equipment.

We say, "Hot Diggity!" That friendly old flasher has kept us out of the pea patch plenty of times! Bravo—and long live the beacon!

SO WE'RE GOING TO PLUG OIL!

This time it's Gulf Aircraft Engine Oil—Series R—that wonderful, nondetergent, straight mineral lubricating oil for *radial* aircraft engines of all types!

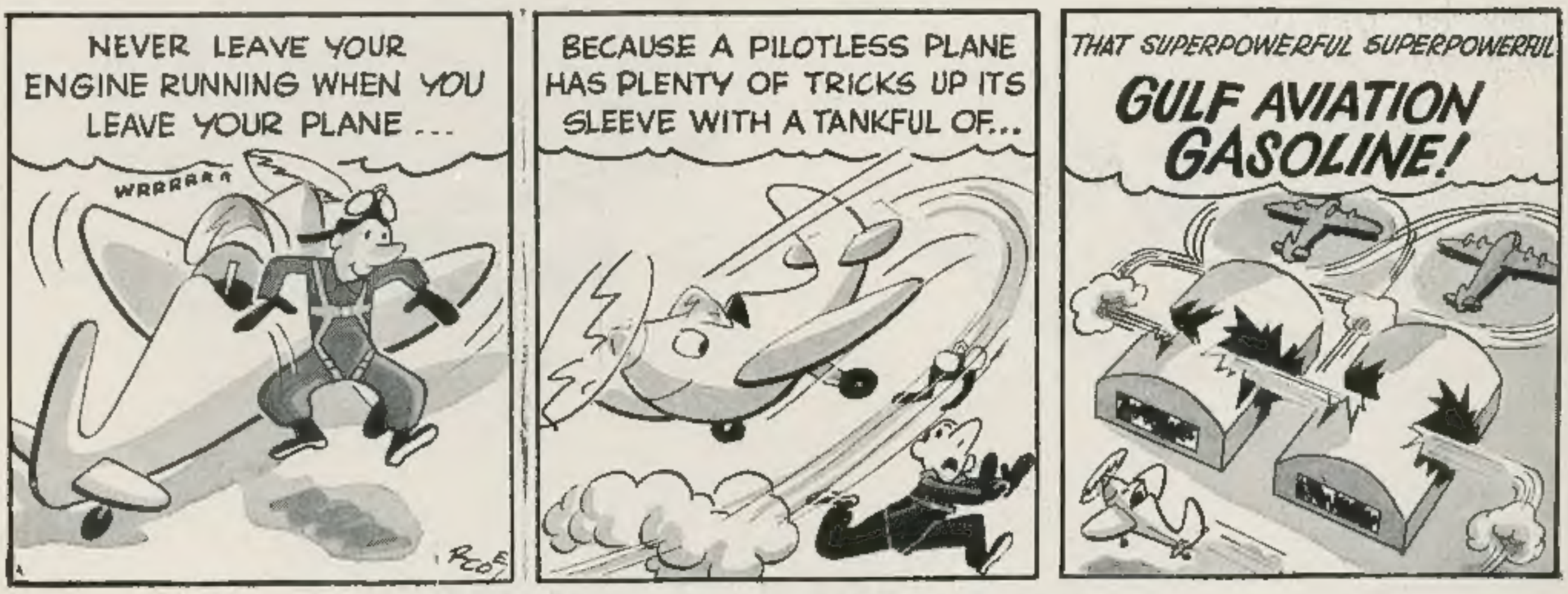
This top-quality oil has the ability to maintain body at high operating temperatures! And—its high resistance to oxidation retards formation of sludge and carbon.

GULF
AVIATION PRODUCTS

You'll find Series R especially effective for obtaining maximum operating periods between overhauls.

Next time, be sure it's Gulf Aircraft Engine Oil—Series R!

P. S. Yes indeedy, for horizontally opposed engines there's always that old favorite — Gulfpride Aviation Oil — Series D!


NEVER LEAVE YOUR ENGINE RUNNING WHEN YOU LEAVE YOUR PLANE ...
WRRRRR
BECAUSE A PILOTLESS PLANE HAS PLENTY OF TRICKS UP ITS SLEEVE WITH A TANKFUL OF...
THAT SUPERPOWERFUL SUPERPOWERFUL
GULF AVIATION GASOLINE!

Gulf Oil Corporation . . . Gulf Refining Company

The Birdmen's Perch

A hangar, a hangar, my kingdom for a hangar!

If you're one of those bright-faced enthusiasts, happily contemplating plane ownership, take heed!

Hangar space is at a premium! All of which means that when you set that shiny hunk of merchandise down at the local airport, you'll probably have to settle for tie-down space in the cold outside!

Any flyboy will tell you that all that dust and moisture floating around in the ozone present some not-too-amusing maintenance problems!

We think, *even before you become the proud possessor of a bill of sale*, it would be wise to look pretty thoroughly into this matter of "outdoor parking"!

AH YES—THE COMMERCIAL

Gulfpride Aviation Oil—Series D—won't keep your hair looking like a million bucks! It won't even pep up a salad dressing!

But—by Jupiter—it's the finest detergent dispersant oil for horizontally opposed engines there is!

Let's face it, Gulfpride Aviation Oil—Series D—is the only aviation oil put through Gulf's exclusive Alchlor process to remove those extra carbon and sludge formers. It keeps valves and rings happy as a bunch of school kids on a picnic.

Whether you're the outside loop type, or one of the soar-and-see variety, Gulfpride Aviation Oil—Series D—will increase those periods between overhauls up to 100%—yes, 100%!

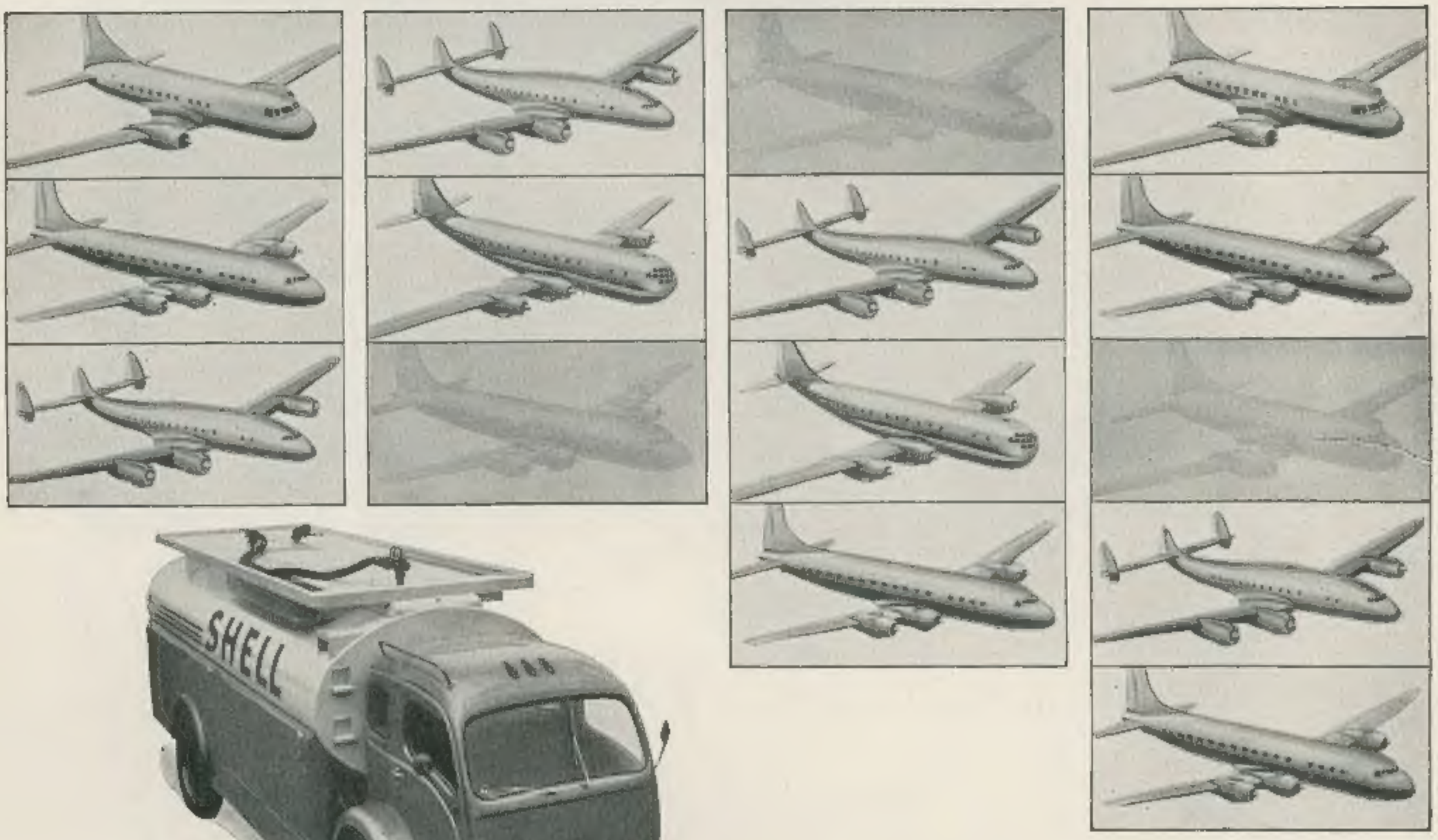
GULF

AVIATION PRODUCTS

ALWAYS LEAVE YOUR PLANE SECURE WHEN YOU LEAVE IT OUTDOORS...
OR A STIFF WIND MIGHT TAKE IT FOR A JOYRIDE, AND YOU...
MIGHT NEVER GET TO USE THAT TANKFUL OF SUPERPOWERFUL GULF AVIATION GASOLINE!

Gulf Oil Corporation . . . Gulf Refining Company

SHELL Is a Major Supplier of AVIATION FUEL to 12 of the 15 Domestic Trunk Airlines



12 more reasons why SHELL AVIATION FUEL

flies THE MOST PASSENGERS
THE MOST AIR FREIGHT
and THE MOST AIR MAIL
IN THE U. S. A. TODAY

SHELL

SHELL OIL COMPANY 50 West 50th Street, New York 20, N. Y.
100 Bush Street, San Francisco 6, California

One out of every four tons of air freight flies on SHELL AVIATION FUEL

...and that's one more reason why Shell Aviation Fuel

***flies* THE MOST PASSENGERS**
THE MOST AIR FREIGHT
***and* THE MOST AIR MAIL**
in the U.S.A. today

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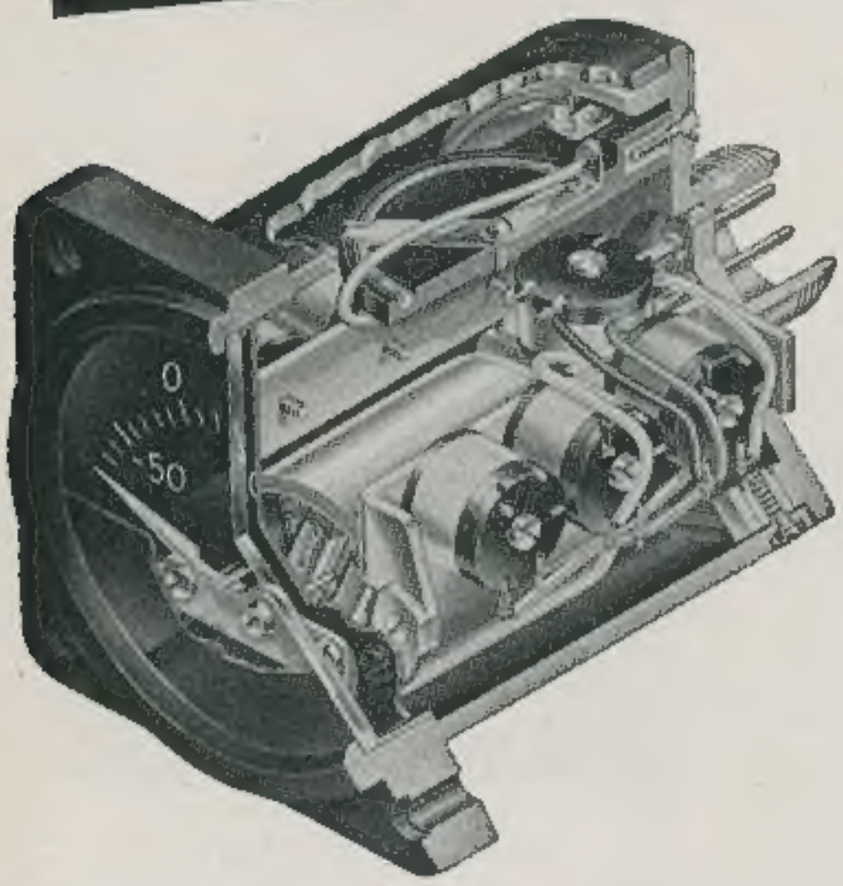
100 Bush Street, San Francisco 6, California

How EDISON Indicators Save 35 Pounds



EDISON electrical resistance temperature indicators were recently specified for cylinder head indication on a new type of four-engine transport. In this installation, two dual indicators and eight bulbs were used . . . at a weight saving of *35 pounds* under the thermocouple system formerly employed.

Weight economy is only one of the many features associated exclusively with EDISON instruments. Of special interest to maintenance engineers is the ability of EDISON indicators to adapt themselves to *any* temperature measurement application. The EDISON ratiometer movement is standard for all indicators whether used for cylinder head, oil, air, heating duct, etc. This standardization permits the temperature range in any given indicator to be changed merely by substituting a new dial and a few low-cost resistors.

It will pay you to investigate this proven way to save weight and cut maintenance costs. For complete information on indicators, send for our new Bulletin #3023. And for matching resistance bulbs, ask for Bulletin #3016.

Thomas A Edison
INCORPORATED

Instrument Division
52 Lakeside Avenue, West Orange, N. J.

OTHER INSTRUMENT DIVISION PRODUCTS

Fire Detection Systems • Engine Gages
Temperature Indicating & Alarm Systems
Time Delay Relays • Sealed Thermostats

Only EDISON Temperature Indicators have all these features

READABILITY WHERE IT COUNTS

Scale is expanded at center of range where operating temperatures are located.

RUGGED, TROUBLE-FREE CONSTRUCTION

Rotor is just a magnet on a steel shaft — No delicate moving coil.

EASE OF OVERHAUL

No special tools—No delicate hairsprings — Jewels easily replaced.

EASE OF CALIBRATION

Merely move the contact on a rheostat—No coil calibration.

YOU CAN ALWAYS RELY ON EDISON

at Waterbury, Conn. for use as a receiving center and transfer point for new machine tools it is getting for its three plants. . . .

Rohr Aircraft Corp., Chula Vista, Calif., has gotten orders for an undisclosed number of engine power-packages and aft nacelles for the Chase C-123 to be built by Kaiser-Frazer at Willow Run. This and other recent contracts brings Rohr backlog to over $92 million. . . .

Solar Aircraft Co. has received an $8-million order from Packard Motor Car Co. to make J-47 turbojet engine aft frames, exhaust cones, turbine casings, transition liners, and inner and outer combustion chamber liners. Bulk of the work will be done at Solar's new 300,000 sq. ft. Wakonda plant in Des Moines. Firm's current backlog is about $78 million. . . .

Sundstrand Machine Tool Co. has begun building a $700,000 addition, of 85,000 sq. ft. floor space, providing additional production space for its hydraulic division. Also, a further 5,000 sq. ft. expansion is being made in the company's machine tool division.

USAF CONTRACTS

Following is a list of recent USAF contracts announced by Air Materiel Command.

Packard Motor Car Co., Detroit, facilities for production of J-47 engines and components, over $250,000.

Pierce Governor Co., Inc., Anderson, Ind., facilities for production of J-47 engine components, over $250,000.

Pioneer Parachute Co., Inc., Manchester, Conn., parachutes & aerial delivery kits, parts, Cl. 20 900 & 30, $125,721.

Products Technicians, Inc., Rochester, photographic scales, Cl. AF 10B, 5,000 ea., $99,000.

Remler Co., Ltd., San Francisco, radio receivers R-122-ARN-12, Cl. 16A, over $250,000.

Republic Aviation Corp., Farmingdale, L. I., machinery and equipment, over $250,000.

Ryan Aeronautical Co., San Diego, machinery & equipment, over $250,000.

Schuttig & Co., Inc., Washington, D. C., radio receiver R-122/ARN-12, Cl. 16A, over $250,000.

Servel Inc., Evansville, Ind., industrial facilities, over $250,000.

Sikorsky Aircraft div., United Aircraft Corp., Bridgeport, Conn., helicopter H-19A, Cl. 01A, 1 ea., $245,510.

Singer Mfg. Co., N. Y., facilities for production of bomb release computers and polar converters, over $250,000.

Solar Aircraft Co., San Diego, facilities for production of J-47 sub-assemblies, over $250,000.

Southern Airways School, Birmingham, operation of Bainbridge Field, Bainbridge, Ga., for conducting basic flying training, over $250,000.

Standard Oil Development Co., New York, testers as synthetic lubricants, $54,250.

Standard Steel Works, Kansas City, Mo., trailer, fuel servicing, for refueling small aircraft, Cl. 19B, 43 ea., $139,253.

Tokheim Oil Tank & Pump Co., Ft.

hand the decision to rail in each case, unless there are extraordinary circumstances.

The Military Traffic Service establishes military traffic management policies for the Department of Defense. Director E. G. Plowman and Deputy Director Col. A. G. Viney say there will be a rewriting of the preference clause, as well as other clauses, this year.

Observers see this as another sign of speed-consciousness and flexibility in military operations. It has been stated that at any given time, over one-tenth of the U. S. military force is in transit, and therefore totally ineffective. Thus one-tenth of U. S. fighting strength is at all times useless under past and present systems of transfer for personnel. A tendency toward more use of air transport in military travel will render more military forces effective at any given time.

Cutting out the rail preference clause in military transfer policy means men will probably be dispatched with whatever speed their commanders feel necessary to the best defense.

The policy change may also indicate belief by the military that commercial air transport should get more business with which to grow, and thereby purchase more planes to serve as a defense reserve.

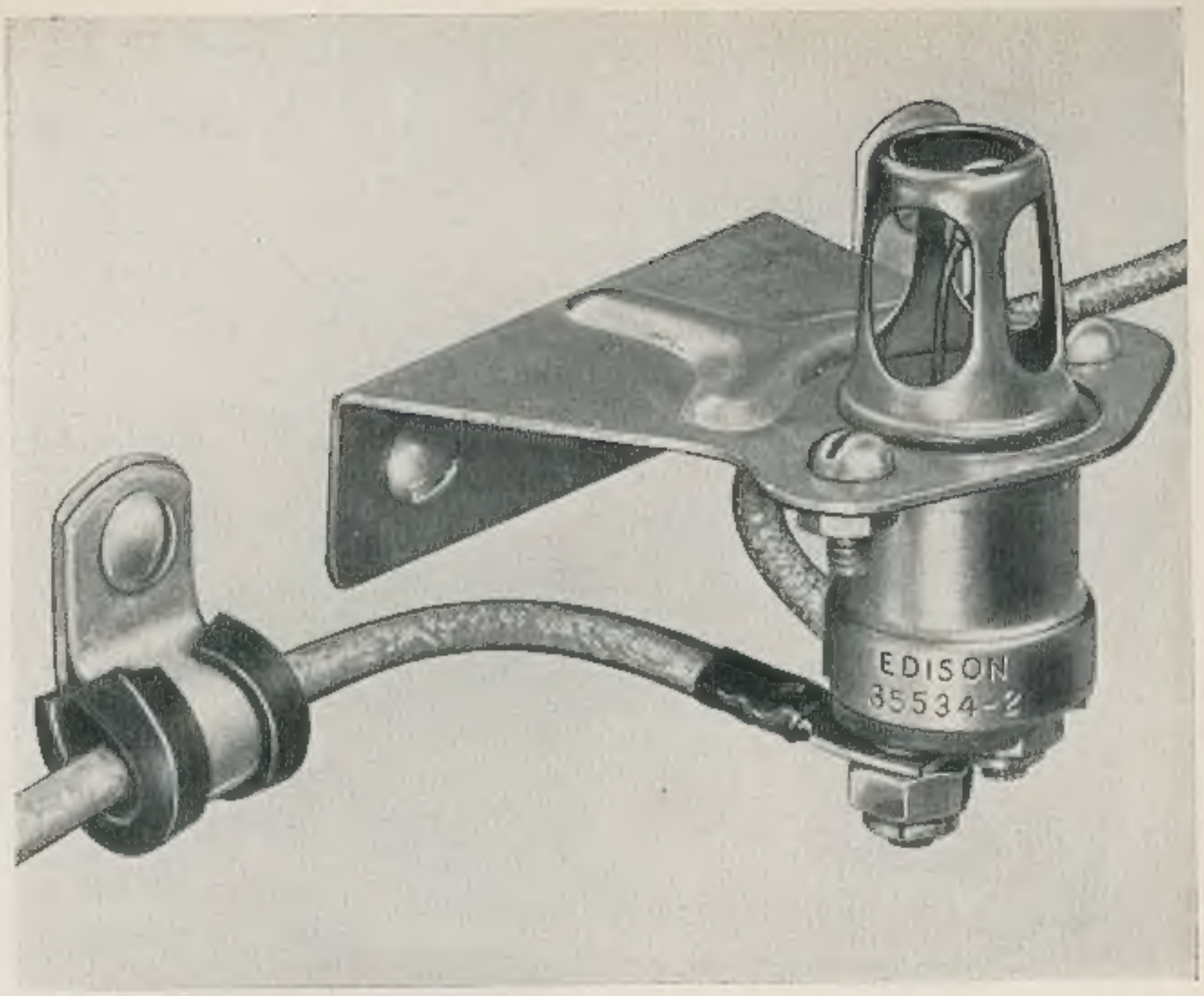
Furlough Air Travel Tax Law Under Fire

Military Traffic Service and Air Transport Assn. may soon get the 15-percent transportation tax taken off airline tickets for furloughed service men. Because of a wrinkle in Public Law 867 passed at the recent short session of Congress, service men on leave must pay the full tax for air travel, but no tax for rail or bus travel.

This law says a service man's round-trip ticket is tax-free only if the cost of that ticket comes to 2.025 cents a mile or less. Plainly, no airline can generally operate at such low cost.

The law went through Congress quietly, as it is the same provision that existed in World War II. But then the airlines were so short of planes they carried only priority travelers, as a rule. They could not provide standing room on their planes as railroads and buses did. But now, with a much larger air transport fleet, and load factors running only 50-80 percent, the military and airlines would profit alike if furloughed service men were given the opportunity to travel by air or surface, as they required.

Under the present setup, neither the service man nor the government nor the defense effort gains from the special proviso forcing airlines alone to charge a 15-percent transportation tax.



Fire detector with a one-track mind!

This EDISON fire detector responds to fire—and nothing else! No amount of vibration or abuse—not even slow heat—can alter its determination to warn the pilot of fire—and nothing else!

Why? Because these EDISON detectors operate on the thermocouple principle. Thermocouples provide the system's *only* source of power, and this power can be generated by *only one thing*—FIRE!

EDISON was first to provide fire detection with no outside power supply in the detector circuit. There are no moving parts, no contacts—nothing to lose calibration. The system cannot alarm because of a mechanical malfunction or a grounded or broken lead. It cannot signal a bad case of vibration.

Specify EDISON for better fire detection!

You can always rely on an EDISON

Thomas A Edison
INCORPORATED
INSTRUMENT DIVISION
West Orange • New Jersey

THERMOMETER INDICATORS
ENGINE GAGES • RESISTANCE BULBS

TEMPERATURE INDICATING AND ALARM SYSTEMS

NEWS DIGEST

DOMESTIC

Allowable gross takeoff weight of Seaboard & Western Airlines' seven DC-4 freighters has been increased from 70,700 lb. to 71,800 lb. SWA claims it is averaging 1,040 lb. more per trip on the Pacific airlift than its nearest competitor and 1,600 lb. more than the average for all the others. Its payload ranges from 12,600 lb. to 15,078 lb., depending on route.

First routine rooftop landing and takeoff in New York was made by Port of New York Authority's new Bell 47-D1 float-equipped copter on May 31 using new heliport atop the 16-story PNYA building. Copter initial flight was inspection trip of Authority's metropolitan air terminals.

Charles F. Blair made first single-engine plane flight across the North Pole when he flew from Bardu, Norway to Fairbanks, Alaska, carrying 3,000 letters in a converted North American F-51 Mustang. He later left Fairbanks to fly nonstop to New York. Total flight time from Bardu to New York (6,850 mi.) was 19 hr. 57 min. Blair is a Pan American World Airways pilot.

U. S. aviation firms paid British engine makers $2,170,000 in royalties and license fees during 1950 for building British-designed jet engines, stated Chancellor of the Exchequer Hugh Gaitskell in the House of Commons. He also noted that earnings for 1951 would show "some increase" over 1950.

Curtiss-Wright extruded prop blades have been ordered by KLM Royal Dutch Airlines for installation on its nine Super Connies scheduled for delivery in 1952, also by the USAF "in substantial numbers" for the piston-engined Douglas C-124 Globemaster. AF is also getting the new blades for the turboprop C-124B. The KLM order is the first commercial airline contract for the blades.

United Air Lines DC-6Bs were still grounded last week as pilots refused to fly them without increased flight pay over that for regular DC-6. UAL claims the existing wage contract covers the DC-6B. Pilots say no. This hitch hits UAL in the middle of an equipment shortage. June 3 was a record traffic day for UAL—6,112,000 revenue passenger miles flown.

Lt. Gen. Kenneth Bonner Wolfe, USAF Deputy Chief of Staff, Materiel and top procurement officer of the Air Force will retire effective June 30. Discussed as possible successors are his Assistant Deputy Chief of Staff, Materiel, Carl A. Brandt and Maj. Gen. Orval A. Cook, Director of Procurement and Industrial Planning, AMC.

FINANCIAL

Durham Aircraft Service, Inc., Woodside, N. Y., has declared a 30-percent stock and 5-percent cash dividend, the former to be paid June 15 to holders of record June 8 and the latter payable July 27 to holders of record July 20.

Northrop Aircraft, Inc., has earned approximately $2,215,000 in the first nine months of the current fiscal year, with unaudited earnings for the third quarter approximating $1,004,000. Sales for the current first nine months total $60.5 million. Backlog now stands at approximately $300 million and allows for F-89 fighter production into 1953.

INTERNATIONAL

Lord Ogmore has been named new Minister of Civil Aviation in Britain, succeeding Lord Pakenham, whose new post is First Lord of the Admiralty.

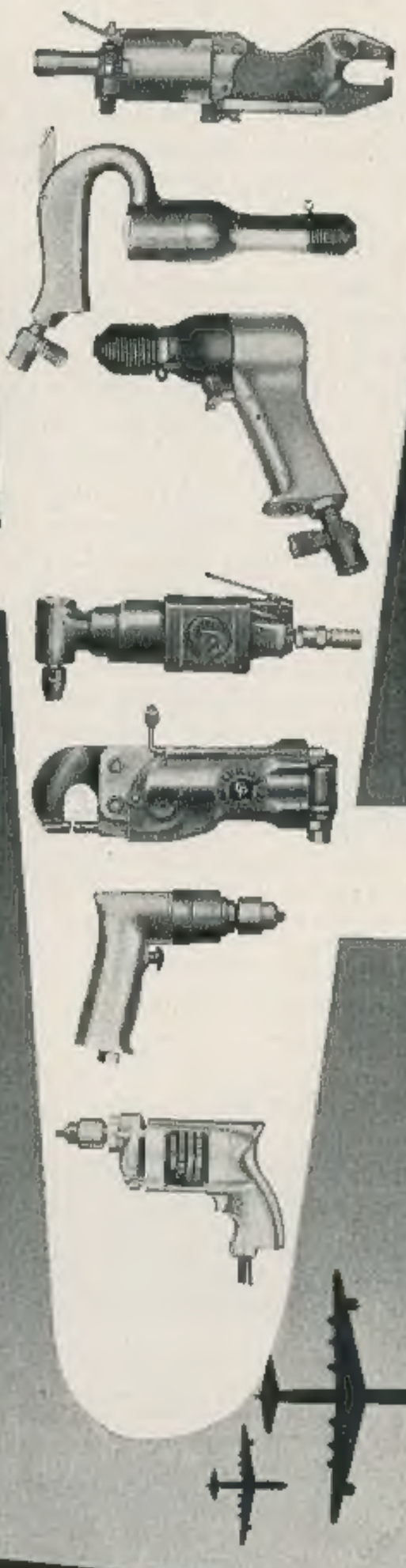
DH Comet made 2,414-mi. flight from London to Cairo in 5 hr. 22 min. carrying 23 passengers. One stop was made in Rome. This was the Comet's first overseas flight undertaken by BOAC, which has it on loan from the Ministry of Supply. BOAC had about 120 hr. flight time on the plane prior to this flight.

Avro Canada CF-100 powered by two Avro Canada Orenda turbojets is to fly shortly. The company also expected to have its first production Orendas completed shortly and in service, hinted that new projects were "starting to take shape." At the same time Avro Canada announced the flight of the Orenda-powered North American F-86A from Toronto to Montreal at an average speed of 665 mph. The Sabre's Orenda has been in operation 100 hr. without overhaul.

Leduc R.L. 16 is being rebuilt to attempt a new world altitude record for lightplanes. It had previously established a mark of 7,788 m. later broken by a Piper lightplane (8,276 m.). The R.L. 16 is getting a 75-hp. Minie engine replacing its 45-hp. Zundapp and hopes to get to 10,000 m. this summer.

for faster construction of faster planes

Chicago Pneumatic, pioneer in the development of airplane tools, offers the world's largest line of pneumatic and electric Air-Frame Tools, described and illustrated in Air Tools Catalog No. 564, Eleventh Edition. A copy will be mailed on request.



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AIR COMPRESSORS • AIRCRAFT ACTUATORS
PNEUMATIC and PNEUDRAULIC RIVETERS
HYDRAULIC RIVETERS • ELECTRIC TOOLS

NEWS DIGEST

DOMESTIC

$4-million damage suit has been filed against deposed Air Line Pilots Assn. President David L. Behncke by ALPA's board, alleging illegal acts. The board's complaint also says that Behncke spent $600,000 in union funds for a new headquarters building although he was said to have been authorized to spend only $425,000.

Northwest Airlines is negotiating with Hydro Aire, Inc., Burbank, for Hytrol antiskid wheelbraking units for its fleet of ten Boeing Stratocruisers. NWA has been service-testing the installation on a Stratocruiser for some time (AVIATION WEEK June 4, p. 49).

Donald Webster, Washington insurance man, has been appointed general manager of National Aeronautic Assn., following his resignation as president of NAA at a recent directors' meeting at Omaha. Joseph T. Geuting, manager of the Aircraft Industries Assn. Personal Aircraft Council, who had been an NAA vice-president, will serve as acting president until a successor to Webster is picked at a meeting in January.

Overseas National Airways C-54 crashed, killing crew of three, after collision with California Eastern Airways C-54 near Oakland Airport Nov. 17. Cal Eastern's plane landed safely. No passengers were aboard either plane.

Maj. Gen. Joseph Smith, former director of Air Force Plans, HQ., USAF, has been named commander of Military Air Transport Service, succeeding Lieut. Gen. Laurence S. Kuter, who has been assigned to USAF Headquarters as Deputy Chief of Staff, Personnel.

Robert C. Northington, vice president of Piedmont Aviation, Inc., Winston-Salem, N. C., was elected president of the National Aviation Trades Assn. at the Ft. Worth annual meeting. He succeeds John Griffin, who was made vice president-training activities. Joseph Hance and Harland Herrin were also named vice presidents; David Finger was made treasurer; Charles Parker was re-appointed executive director.

Dr. Harold E. Mehrens, supervisor of CAA's aviation development education program, has been announced as 1951 winner of Frank G. Brewer Trophy for contributing most "development of air youth in the field of education and training." Award will be made Dec. 17 at Aero Club dinner at Hotel Statler, Washington, D. C.

Carrol B. Vickers, 56, aviation and automotive devices inventor, died Nov. 7. He once operated the Vickers Mfg. Co., Benton Harbor, Mich.

FINANCIAL

Solar Aircraft Co., San Diego, has declared a regular quarterly dividend of 15 cents a share and an extra dividend of 5 cents on its common stocks, with payment Jan. 15 to stock of record on Dec. 31.

Philippine Air Lines reports a net profit of $1,211,030 for the first nine months of 1951, a 375% increase over the same period last year. Operating profit for the current period was $11,366,299.

Kellett Aircraft Corp., Camden, N. J., reports a consolidated operations profit of $185,692 for the nine months ended Sept. 30.

United Aircraft Corp. had a $8,497,370 net income on sales of $288,511,291 during the first nine months of 1951. Net income for the third quarter was $2,189,378 on sales of $103,290,719. Backlog as of Sept. 30 was about $1.3 billion. A quarterly dividend of 50 cents on UAC's common stock was declared, payable Dec. 10 to holders of record Nov. 23.

Colonial Airlines reports a net profit of $405,000 for the first nine months of this year compared with a loss of $167,000 incurred during the same period last year.

Republic Aviation Corp. has declared a 75-cents-a-common-share dividend payable Dec. 14 to holders of record Nov. 30. A 25-cents-per-share dividend was paid in April.

Western Air Lines reports earnings of $1,185,323 during January to September—an 80% gain over the same period last year despite loss of nearly $1 million in revenues during a 15-day mechanics strike.

INTERNATIONAL

A. V. Roe Canada Orenda jet engine is to be fitted with an afterburner made by Solar Aircraft Co. The Orenda is unofficially reported to give over 7,000 lb. of thrust normally.

SPEED AIRPLANE PRODUCTION
WITH CP AIR-FRAME TOOLS
Pioneer in developing tools for airplane construction, Chicago Pneumatic offers the world's largest line of pneumatic and electric tools for the faster production of the most modern types of planes.
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NEWS DIGEST

DOMESTIC

Six B-36 bombers landed in England after one-stop flights from Fort Worth, Tex. Planes refueled at Limestone AFB, Me., but each took a different route to England, completing 7000-mile flight in about 24 hours flying time. The planes carried combat loads, dropping practice bombs en route. It was the first time B-36s had landed on foreign soil.

NWA 2-0-2 crashed and burned near Reardan, Wash., on a flight from Spokane to Seattle, killing all aboard—seven passengers and three crew members. Accident occurred five minutes after takeoff.

Jet combat efficiency is highlighted in combat reports from Korea on the Grumman Panther carrier-based fighter which credit the plane with having achieved a record of 96 percent combat availability in the period up to December, 1950.

McDonnell F2H Banshees operated by Marine Fighter Squadron VMF-122 at Cherry Point have been making weather penetration flights of up to 46,500 ft. before breaking through the overcast. Training is to step up all-weather operating efficiency.

Larger fuel capacity is being built into North American's T-28 trainer as a result of comments received from bases using the new plane. The company is also considering installation of a revised instrument flying hood.

Orlando AFB, Fla. has been officially reactivated by the 14th Air Force, with Lt. Col. Charles Densford named commanding officer.

Bell H-13 copters assigned to the Navy in Korea are cooperating with the Marines and Army ground forces in evacuating casualties.

FINANCIAL

Standard-Thomson Corp., aviation and automotive parts maker, reports sales of $4,995,999 for the six months period ended Nov. 30, 1950. Net profits before taxes were $964,972, a 114-percent gain over the similar period in 1949.

INTERNATIONAL

De Havilland Aircraft-Canada reports a net profit of $324,698 in 1950 compared with $65,114 in 1949.

Hispano-Suiza has contracted to produce in France the Rolls-Royce Tay turbojet engines under license.

Our Expanding Industry . . .

Cleveland Pneumatic Tool Co. has started a $2.5-million program to expand production facilities for increased output of landing gear and other aircraft products. Company is arranging for financing of $1 million of the total, the balance covering machine tools being acquired from government. Target date to complete program: July 15, 1951. . . .

Ford Instrument Co., Long Island City, N. Y., has received a multi-million dollar contract to produce transmission assemblies for the Piasecki HUP-1, now in quantity production for the Navy. . . .

Kaiser-Frazer Corp. will go after aircraft subcontract work for a plant at San Leandro, Calif., that it has just leased from Osborne Machinery Co., KF originally arranged to use plant for auto assembly, but switched plans when the stepped-up aircraft program came along. Employment is expected to reach 2500. . . .

All-American Airways, engineering and research division, Wilmington, Del., has been awarded a $400,000 contract to produce special winches for military aircraft, and expects the order to be increased. The airline's manufacturing division has been participating in development of flight refueling and seat ejection devices for the Navy. . . .

Parker Appliance Co., Cleveland, is buying new machinery, taking over more production space and establishing subsidiaries to handle growing defense business, the company's annual sales meeting was told. Backlog now is $6 million. Parker has: installed additional machinery and launched subcontracting to increase production of aircraft fittings and valves at the Los Angeles plant; bought Eaton Screw Products Co. in Eaton, O.; bought machinery for the Cleveland Valve division; taken back 30,000 sq. ft. of plant space leased to Thompson Products; set up in Los Angeles the Synthetic Rubber Products Co. to catch up on production of synthetic rubber O-rings.

for faster construction of faster planes

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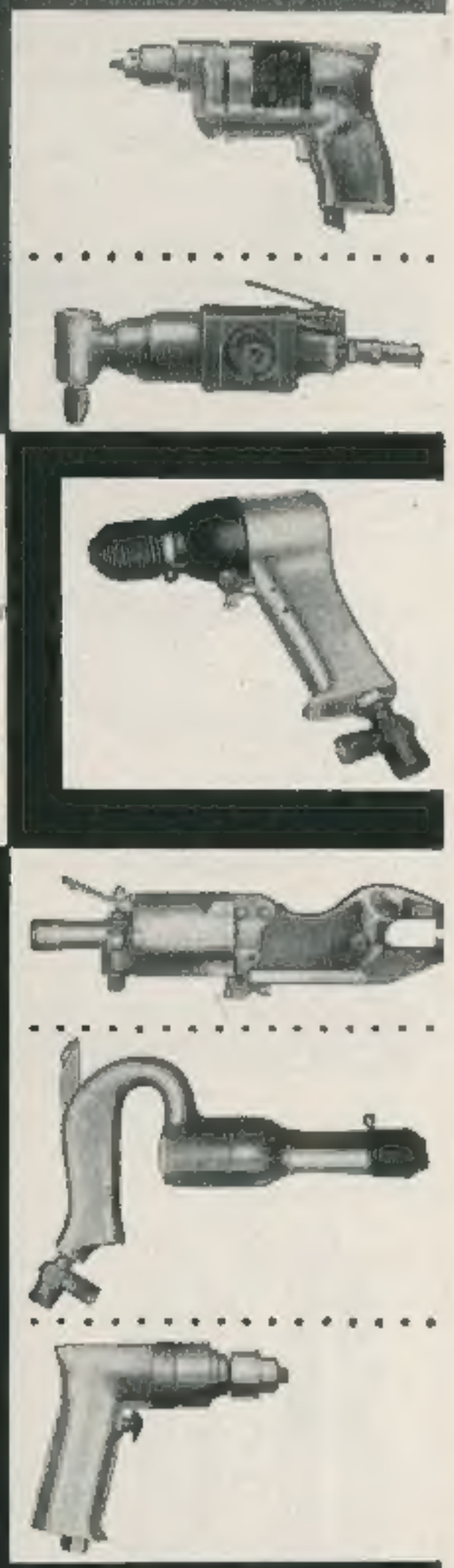

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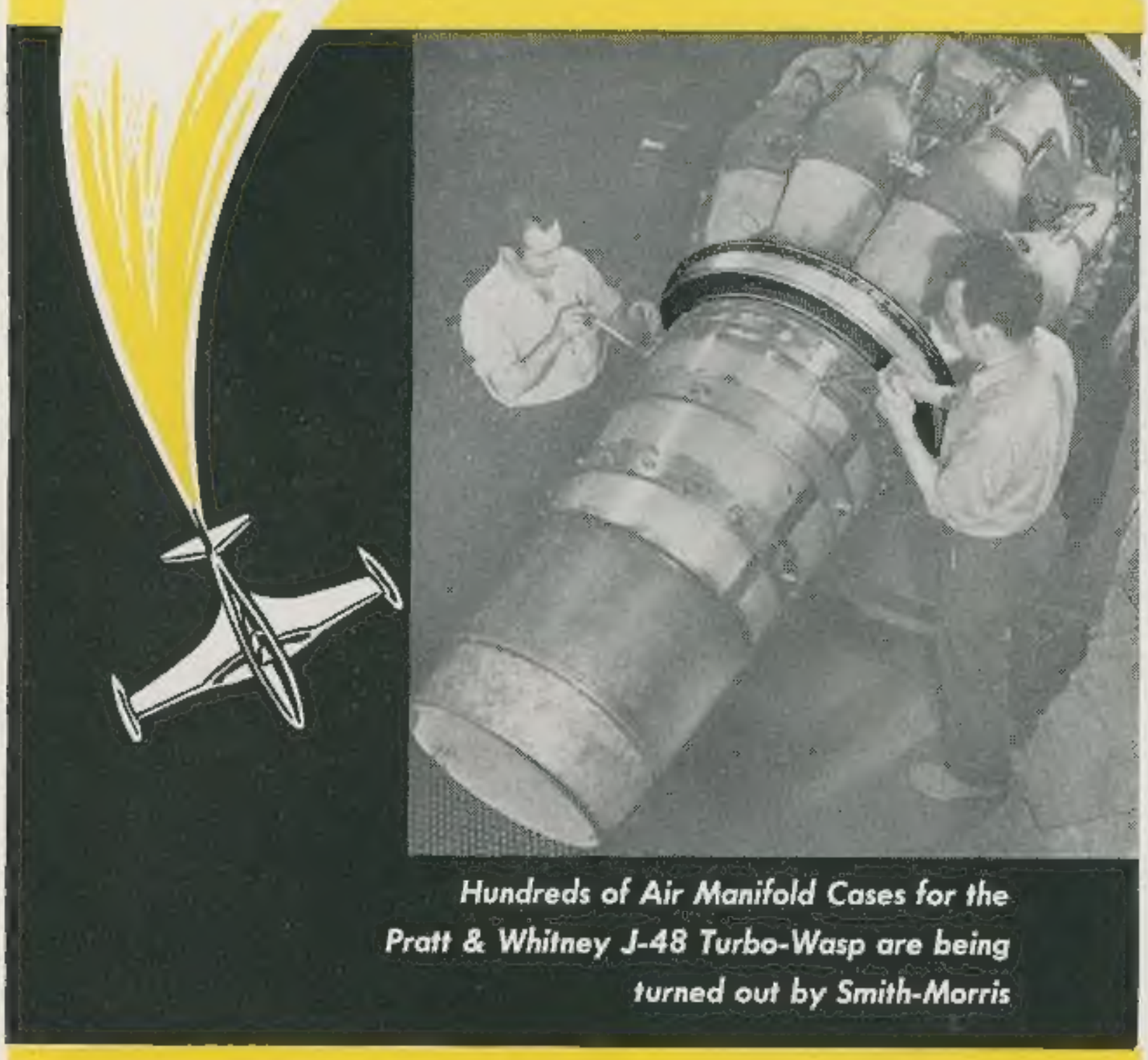
MOVING FAST

...Today's Planes

...Today's Production



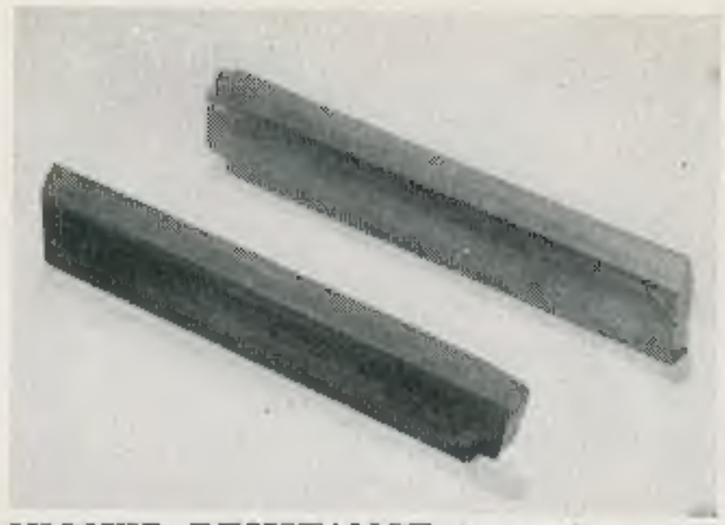
Hundreds of Air Manifold Cases for the Pratt & Whitney J-48 Turbo-Wasp are being turned out by Smith-Morris

Complete production of high-temperature alloy parts like these at war speed calls for side-by-side positioning in the Smith-Morris plant of die-foundry equipment, pneumatic Cecostamps, and ultra-modern welding equipment . . . Maybe we can develop for you "an unusual way to make an unusual part." That's what we're proud of doing at Smith-Morris— that, and meeting the strict aircraft standards of precision and quality. What can we do for you?

SMITH-MORRIS COMPANY

AIRCRAFT EXHAUST MANIFOLD SYSTEMS
GAS TURBINE PARTS AND ASSEMBLIES

FERNDALE 20, MICHIGAN



HIGHER RESISTANCE to erosion, corrosion and abrasion is the verdict on new Series 600 chrome carbide centrifuge blade (rear) as compared with older tungsten carbide blade. They are shown here after 6-weeks test.

New Carbides Fight Heat, Oxidation

Two recent carbide developments by Carboloy are expected to have important applications in aircraft manufacturing.

• **Series 600 chrome carbides** are considerably lighter in weight than conventional carbides, and have shown good resistance to high temperature oxidation.

• **Tungsten carbide bearings** are showing excellent properties in laboratory tests at high speed, high load and high temperature operating conditions.

Carboloy cites these test results as proof of the valuable properties of its Series 600 chrome carbides:

• **Temperature tests.** Samples of the series were exposed for 24 hours at 1850F in air, and retained their metallic lustre, with virtually no dimensional or weight change. Conventional carbides and stainless steels, meanwhile, were reported to have disintegrated completely at those temperature ranges.

• **Salt spray tests.** At Battelle Memorial institute Series 600 carbides were subjected to a 30% salt-spray for 750 hours and were so mildly affected they retained their metallic luster. With sulphuric acid as a corrosive agent, they showed about 30 times the resistance of 18-8 stainless and triple the resistance of conventional carbides, reported Carboloy. With nitric acid, resistance was reported about eight times that of other carbides.

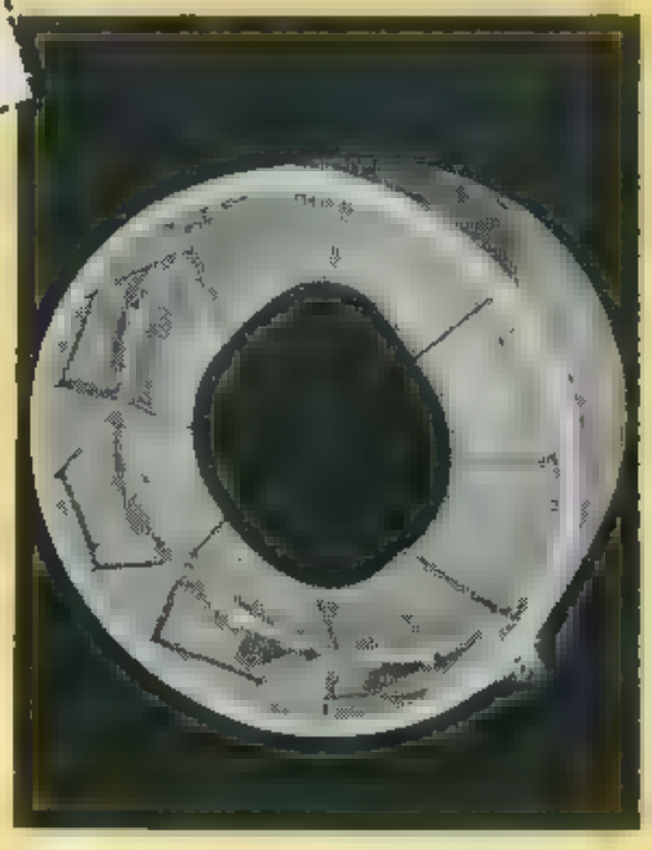
The chrome carbides appear to be non-magnetic. Their expansion coefficient is about the same as steel. They are machineable to about the same extent as tungsten carbides. The Series 600 metals, incidentally, are much less dense than orthodox tungsten carbides; price by weight is about the same for the two classes, but you get nearly twice the volume of the lighter chrome carbide per dollar than you get with tungsten carbide.

The chrome carbide unveiling, car-

Positive retraction
against full ram pressure
. . . even when
COMPLETELY ICED!

RETRACTABLE AIR INTAKE SCREENS

Smith-Morris engineering ingenuity has continually worked to achieve excellence in airplane performance. In successfully developing the retractable air intake screen, Smith-Morris has again provided a solution for tomorrow's need today.



Here is a screen designed to keep debris out of axial-flow jet engines and one that is retractable even when icing conditions are extreme. It is equipped with self-contained duct doors for reduction of drag of inoperative engines, and an interlocking mechanism makes it impossible to extend duct doors when the power plant is operating. Complete information furnished on request.

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AIRCRAFT EXHAUST MANIFOLD SYSTEMS
GAS TURBINE PARTS AND ASSEMBLIES
FERNDALE 20, MICHIGAN

Your Best Choice
FUEL SYSTEM COMPONENTS

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ALLEN offers complete designing and production facilities, including electrofilm graphiting, for custom engineered fuel system components. Write or wire ALLEN today your special requirements or specifications. ALLEN is your best choice for fuel system components.

OIL CHECK VALVE Swivel Fitting Parts

ALLEN AIRCRAFT PRODUCTS, INC.
P. O. Box 29, Phone 7533, Ravenna, Ohio
Coast Rep. THE THORSON CO. 1644 N. Orange Grove Ave. Los Angeles 46, Calif HE3007

a job that would ordinarily take 4,500 to 5,000 hours.

Lockheed reported it used only 87 hours to locate two trim bars by the optical and auto-reflection method. On an identical jig, 140 hours were spent locating by conventional methods. This does not give a true picture however because considerable learning time is included. Lockheed set the second bar in 24 hours.

►**AIA Standards**—After the four-day conference, the optical tooling panel of the manufacturing methods committee of the Aircraft Industries Assn. met and adopted some minimum standards to be used in optical tooling. The panel agreed to investigate further such aspects of optical tooling as distance measuring equipment and auto reflection.

Western members of AIA had previously agreed to go in the same direction on optical tooling, and at this meeting the eastern representatives agreed to follow the same standards.

They standardized on these minimum accessories only: the diameter of the target and the outside diameter of the telescope. This is so they can interchange jigs. For example, if Boeing sent Douglas a jig which was aligned optically Douglas could put its own telescopes in the same position on the jig and align.

AIA members by no means agreed to any system of optical tooling. They intend to keep ingenuity and flexibility in development.

Boeing, Northop, Chance-Vought, Convair, Republic, Lockheed, Martin, North American, and Douglas were represented on the panel. Charles Glasgow, chief tooling engineer of Douglas, was chairman.

►**Reassembly Time**—The actual reassembly demonstration at Maywood went as scheduled. A summary of times in manhours used on the Lockheed F-94 and the North American F86-D structures was:

	Lockheed	North American
Design time	950	1822
Fabrication time	2391	3997
Breakdown and skidding	21	80
Re-assembly	31	75

These are development hours. The figures would be substantially reduced by complete familiarization of personnel with the Republic method of fixture construction. Reassembly hours might be increased, however. For reasons of expediency, a tolerance of plus or minus .010 was held in the demonstration. (Accuracy depends on time use in setting up, and vice versa).

By using greater care, a tolerance of plus or minus .001 and 6 seconds angularity can be held.

Exhaust Dependability... a Must!

EXHAUST PIPES, BUILT BY SMITH-MORRIS— They're on this Wright Turbo-Cyclone 18 Engine.

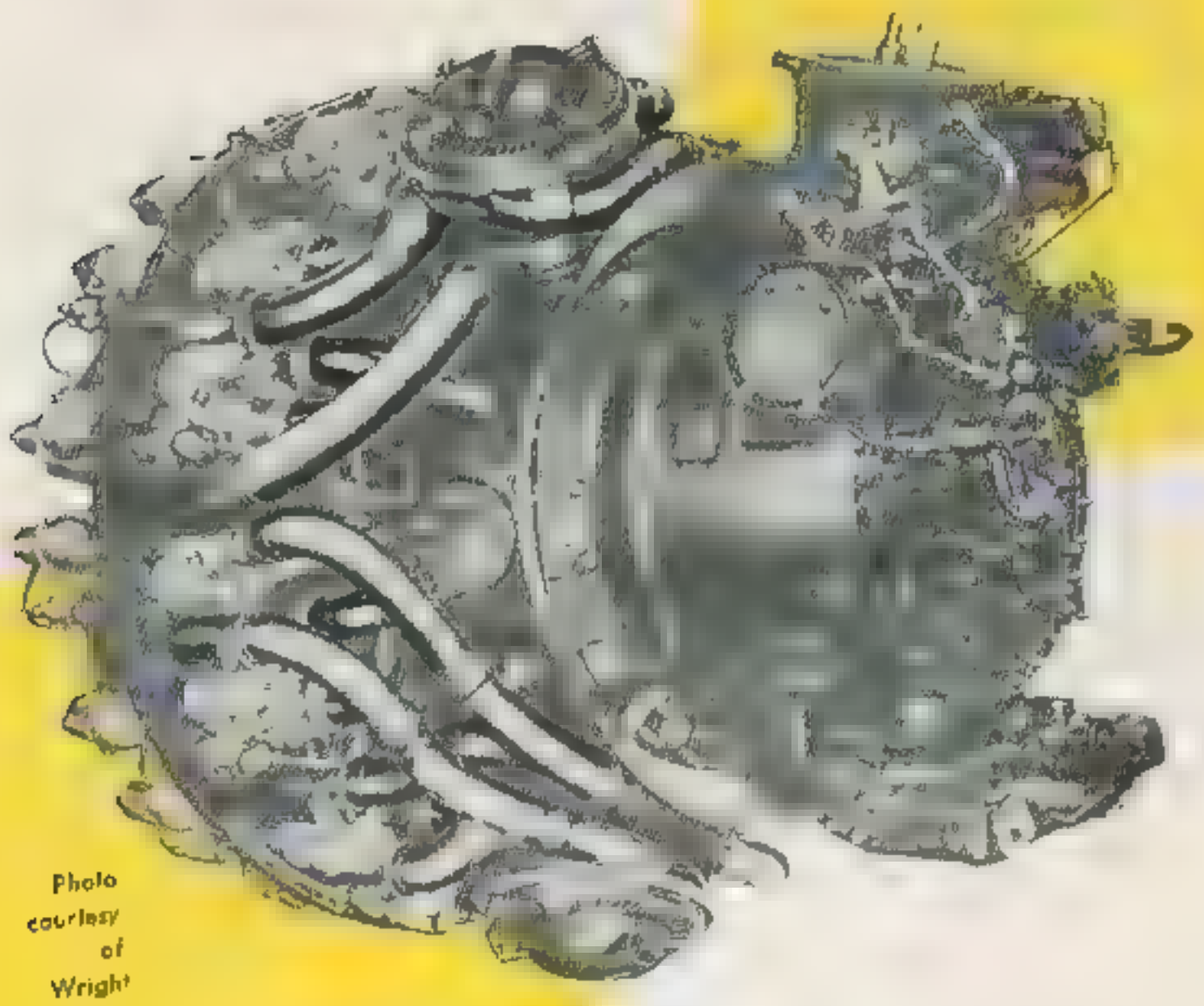


Photo courtesy of Wright Aeronautical Corp.

When engine power can drop critically through exhaust stack failure, it calls for carefully made and precision-fitted pipes. Smith-Morris makes these, complete—makes them economically—turns them out at war speeds. That's the Smith-Morris specialty: producing unusual high-temperature alloy parts in unusual ways . . . What can we make for you?

SMITH-MORRIS COMPANY

AIRCRAFT EXHAUST MANIFOLD SYSTEMS
GAS TURBINE PARTS AND ASSEMBLIES

FERNDALE 20 MICHIGAN

adjustable brackets, etc.) were described in AVIATION WEEK's Dec. 11, 1950, discussion of the evaluation of the optical tooling technique, together with a brief mention of the German castings for frame assembly.

Actually, the basic optical instruments and the castings had been used in aircraft fixture fabrication before - but not together.

The British used the elementary optics for the Avro Lancaster and obtained fairly accurate results, but the job was a tedious one and required highly skilled toolmakers.

The castings were introduced first in Germany at the Henschel aircraft works in 1938, later made standard equipment by the German Air Ministry and were used extensively during the war in that country's aircraft industry. Japan acquired rights to their use in 1942.

Republic engineers saw the advantages of combining the optics and castings into a single system arrangement.

► **Phase III Completed**—The castings, too, are a part of Republic's AF optical tooling contract. Phase III calls for the design of American standard counterparts of the German units. Though phase II has not yet been completed, Republic pushed up its schedule on phase III and already has finished it.

Chief differences between the American and German standards are the use of the English instead of the metric system; inclusion of provision for use of 10-in. pipe in the American standards; the method of attaching sway braces; and other changes generally improving the German design.

These American standards shown in the accompanying illustration, are only tentative proposals and probably will be revised and supplemented as more experience with the system is gained.

The castings are manufactured for Republic by Columbian Bronze of Freeport, Long Island, N. Y.

► **Casting Relations**—Here are some of the uses and combinations possible with the various casting units (the part numbers are Republic's; in the following tabulation, only the last two digits are used except in initial listing):

- **T2G1001:** This is a simple clamp used with other components for anchoring frame pipe.
- **02:** This clamp has flat surface which serves as small mounting face
- **03:** Clamp eye is used for attachment of sway brace
- **04:** Larger mounting surface is afforded here and unit can be used with part 38 for sway brace attachment.
- **05:** Used instead of 04 for 3-in. pipe only.
- **06 and 07:** Serve where top and top and side mounting faces, respectively, are desired
- **08 and 09:** Right angle hookup units incorporating equal bores and unequal legs, and unequal bores and unequal legs, respectively
- **10 and 11:** These castings have equal

controls the rate of neutron release.

These rods are designed so that they penetrate about halfway into the pile when the reactor is working at a multiplication factor of one. To open the throttle, the rods are moved out, the amount of neutrons increases and the power level increases. To close the throttle, the reverse procedure is used.

But such a control system is not necessarily stable. Control rods are not analagous to throttles, because they control only the rate of change of power, and not the power level itself. In order to maintain the multiplication factor at exactly one, the control would have to be balanced with a precision not practical. In practice, the power of the reactor would be always decreasing or increasing.

Fortunately, there is a time lag built into the system. Some neutrons are delayed in the fission process—that is, they are liberated at some finite time after fission has taken place—and therefore are not instantly available to increase power. It is this time delay which makes control, albeit a hunting system of control, possible.

▶**Other Fuels**—At the beginning of this section, it was assumed that the fuel for the reactor would be natural uranium, containing 0.7 percent of fissionable U235. This choice was made because uranium does occur in nature and its U235 content is easily fissionable.

Natural uranium can be enriched by processing to remove the U238; this is expensive, but may prove desirable where fuel cost is not required to be competitive. The advantage is one of lessened fuel handling

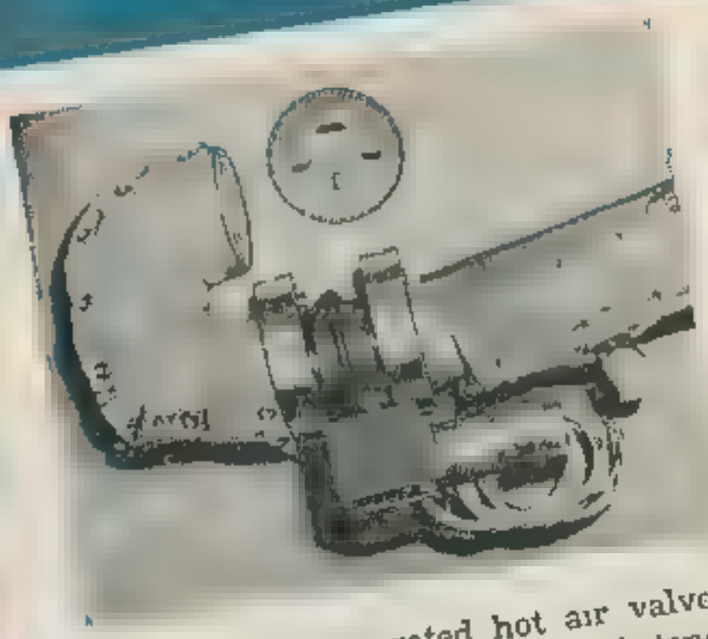
As a matter of incidental interest, there is a modified fission process which takes place in the chain reaction of uranium. Some slow neutrons will penetrate the U238 and form a new isotope, U239. This substance is radioactive and, by giving off a beta particle, becomes neptunium (Np239). This in turn undergoes transmutation by emitting another beta particle and becomes plutonium (Pu239). The plutonium thus formed is fissionable (by either slow or fast neutrons), and can be used as another atomic fuel.

Theoretical and laboratory studies have shown that there is a chance of producing another fissionable material by the transformation of thorium (Th-232) with steps similar to those in the U238 to Pu239 process.

It appears that the designer of a nuclear reactor could choose his fuel from among U235, U238, Pu239 and Th232.

▶**Reactor Choice**—Another basic design choice faces the nuclear engineer. Reactors can be made to work using fast, intermediate or slow neutrons. They can be made to work at low, medium

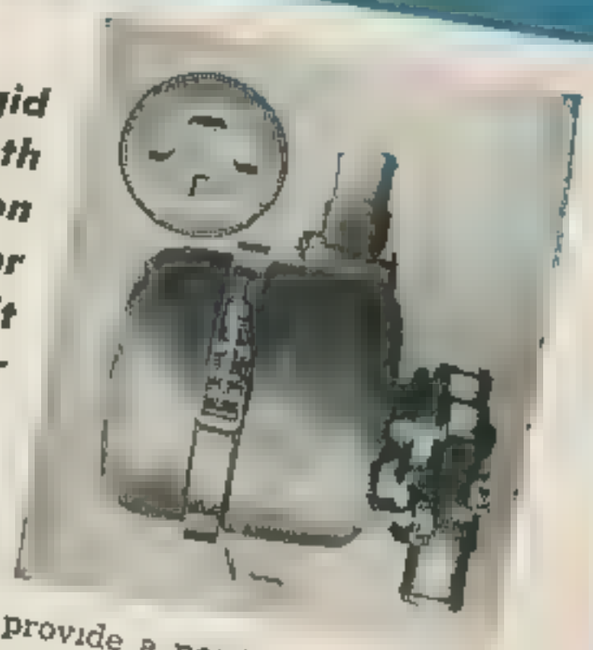
ENGINEERS' NOTEBOOK



V-Band Couplings simplify Hot Air Valve Installation on Lockheed F-94

Electrically operated hot air valves used on Jet engines demand a joint seal that will withstand high temperatures and pressures Ideal solution employed on Lockheed F-94 Hydro Air Valve illustrated, is a Marman V-Band Coupling This lightweight, compact joint easily withstands pressures as high as 400 p.s.i. and temperatures of 450° F. At the same time it is quickly detachable for fast assembly and disassembly—saves weight, space and cost.

Rigid High Strength Connection for Jet Aircraft Fuel Filter



Marman V-Band Couplings are also utilized to connect fuel filters on Lockheed F-80, F-94 and T-33 series. Tested at 150 p.s.i, these connections provide a positive seal under vibration and stress.

Marman V-Band Couplings are usable for all types of flanged joints. Standard types available for wide range of temperature, pressure and strength requirements.

Save Cost and Design Time with Marman
Standard Clamps for Special Applications

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Significant details, no matter how apparently obvious, should not be overlooked."

► **Limited Outlook Unwise**—It may be presumptuous to put myself in the place of management when an item of safety such as the matter of providing microphones in oxygen masks comes before it. In the case which Dr. White mentions, management probably was alerted by its staff to the possible need for microphones under the conditions mentioned and also in the event of fire or smoke in the cockpit. If it turned down the proposal to install microphones it made an error in judgment and not one of negligence.

The executives or committees that decide such matters must balance economic factors against accident probabilities because the function of an airline is to operate at a profit. The committee is likely to err on the side of economy if it regards a particular item which is technically desirable, such as a microphone, as only an isolated need, one which may not be required in several years of flying. On this basis they might table the item—to use the money for other purposes.

Such decisions based on a limited economic outlook will ultimately catch up with operation, with disastrous financial results.

► **All Factors Important**—Coming to a conclusion that an important item may be needed so seldom that it should not be adopted is a fundamental error in safety thinking in aviation. It is true that item A may fail only once in 50,000 hr., item B once in 100,000 hr., item C once in 20,000 hr., but the cumulative total of all the things that go wrong averaged up in 1950 in scheduled passenger operations to one accident in every 12,400,000 mi. of flying of which seven were fatal, killing 145 passengers. It is a very good record but not good enough. It does not include near accidents.

Management should at all times recognize that safety in aviation is dependent on attention to **all** the things that may go wrong. If each safety measure is considered independently of the whole, judgment becomes distorted and may lead to dangerous decisions on the economics of safety expenditures.

A decision to adopt or deny a safety measure may at times be influenced by familiarity with a dangerous operation and the success that management has had in coping with it. For instance, a dangerous letdown procedure may have been followed for years without accident. But if a dangerous act is performed often enough it is very likely to result in an accident, especially in flying where safety is so dependent on the correct functioning of the many factors that comprise the sequence of every operation.

ENGINEERS NOTEBOOK

Fast, efficient, positive attachment for hydraulic lines, wiring accessories.

Marman support clamps perform an infinite variety of tasks. The lug support clamp illustrated fastens hydraulic lines to the main landing gear on a large bomber. It is ideally suited for applications where a highly stressed machined part prohibits the use of welded lugs.

The clip support shown below accomplishes a similar purpose except that it holds hydraulic lines farther away from the strut and provides a lighter assembly with slightly less strength. Its use may be preferred where many such supports are required on one ship.

Throughout the airframe structure lug and clip supports find many applications. Line support clips, wiring harness clips, attachment of ducting, are just a few of the many light duty installations for which they are suited.

By specifying one of the many highly adaptable standard Marman designs, of which these are typical, you achieve significant savings in development and production costs. In addition you gain the benefit of maximum service tested performance.

Save cost and design time with Marman...

Standardized Clamps for Specialized Applications

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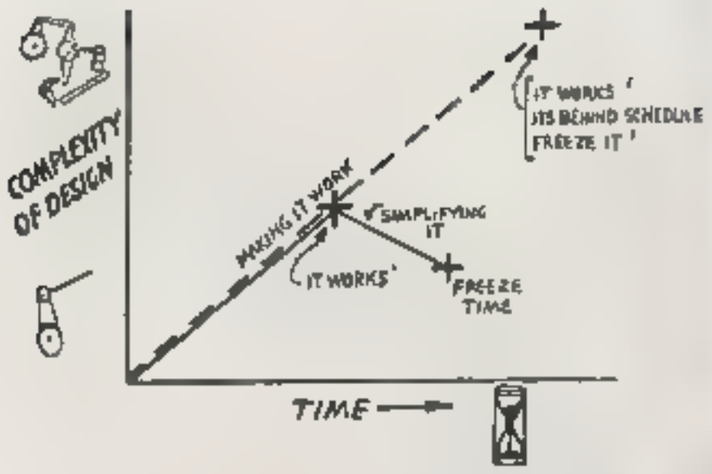

. . . it is certainly not a true safety device.

Similarly, systems backed up by other systems which will presumably be used if the first system fails, in turn backed up by other systems, and so on, simply tend to multiply the insecurity.

The constant shoring up of a poorly conceived design with crutches here and props there, rather than . . . throwing the whole thing out and replacing it with a properly designed component, is a penny-wise and pound-foolish policy.

► **Style**—The aeronautical profession is beset by stylists and faddists. For a few years an attempt is made to operate everything electrically; then hydraulics becomes the rage; then a reversion to mechanical controls. At the present time there seems to be too much subservience to the god of electronics. Experience of all these things shows that they all have their troubles and they all have their place; the one that will do the best job should be chosen, not

Complicated tubular parts made to specification with tolerances as close as ±.0005. Complete facilities and experienced personnel. Write for illustrated brochure on plant equipment and capacity.

CS&BCo
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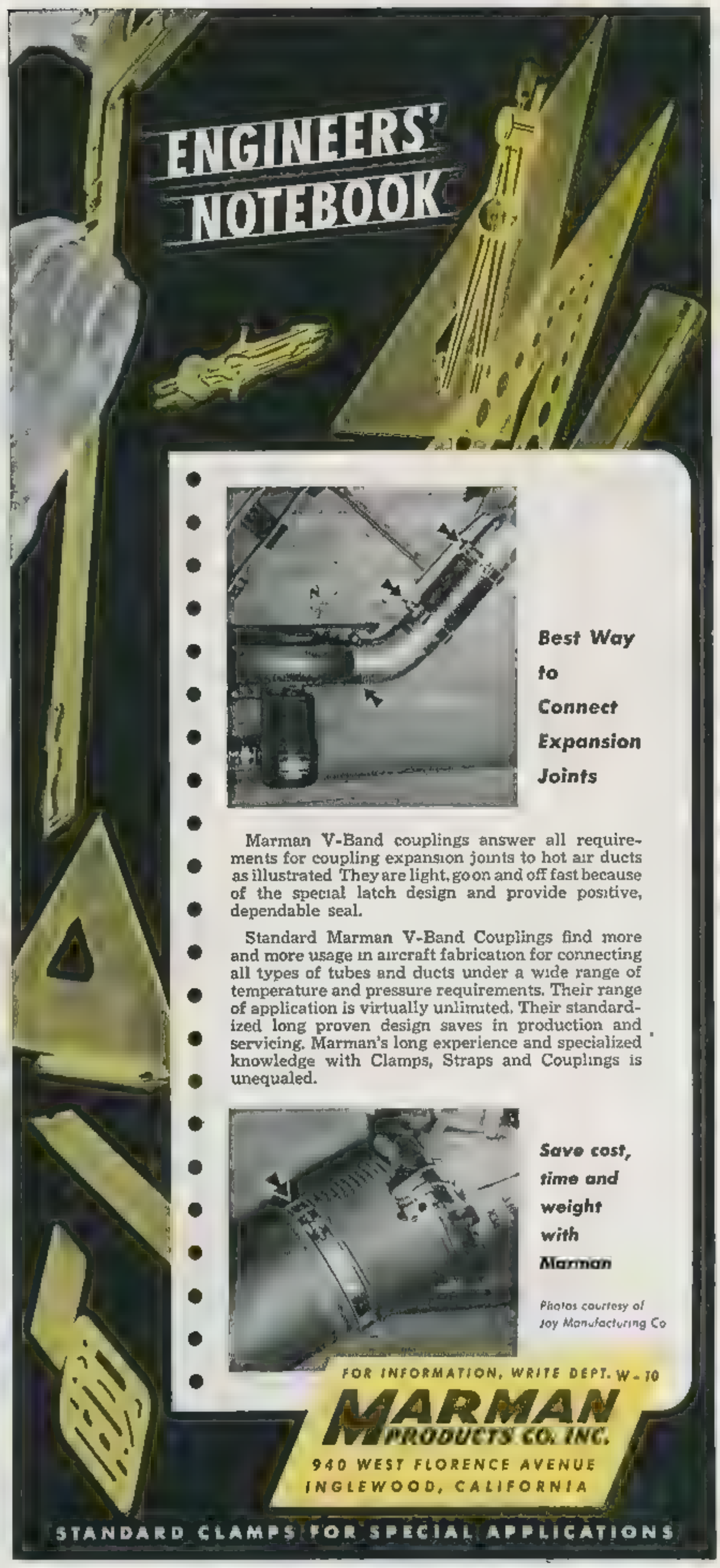
TUBE BENDS INC.
NEW BRITAIN, CONN., U.S.A.



Best Way to Connect Expansion Joints

Marman V-Band couplings answer all requirements for coupling expansion joints to hot air ducts as illustrated They are light, go on and off fast because of the special latch design and provide positive, dependable seal.

Standard Marman V-Band Couplings find more and more usage in aircraft fabrication for connecting all types of tubes and ducts under a wide range of temperature and pressure requirements. Their range of application is virtually unlimited. Their standardized long proven design saves in production and servicing. Marman's long experience and specialized knowledge with Clamps, Straps and Couplings is unequaled.

Save cost, time and weight with Marman

Photos courtesy of Joy Manufacturing Co

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STANDARD CLAMPS FOR SPECIAL APPLICATIONS

tion. All engines whine upward, and the plane begins to gather speed. It accelerates, gets up on the step, and becomes airborne for our fancied flight.

The pilot climbs the plane to a moderate altitude where full pressurization and oxygen are not needed. There is, of course, no fuel saving by climbing to high altitudes to reduce the drag and therefore the thrust. The big plane is trimmed for level flight at about 500 mph. true air speed, and the monotony of a 50-hour flight begins.

Day becomes night, and then day again. Relief crew succeeds crew on a four-hour cycle. Deep in the hold, the blind eyes of Geiger-Mueller counters sample radiation and send continuous signals to the master control panels in the engineers' bay.

►**Letdown to Base**—Another 24 hours pass, and the plane nears its home base. The pilot begins his letdown toward the water landing strip several hundred miles away. The engineer slowly reduces the power level of the reactor. Servo systems measure the rate of change of temperature drop of the hot air through the ducts, comparing it with a signal from the rate of power decay in the reactor. Positioning motors change the rod immersion depth continually so that the power production curve rises and falls slightly as the system hunts above and below the exact power level.

Gradually the atoll comes into sight, and the plane is just skimming the water. Then the first wave crest slaps the bottom and the plane settles onto the Pacific in a shower of spray.

As it slows to minimum water-handling speeds, the towboat comes alongside. One of the plane's crew slings over a line which is made fast, and the towboat starts off towards the anchorage.

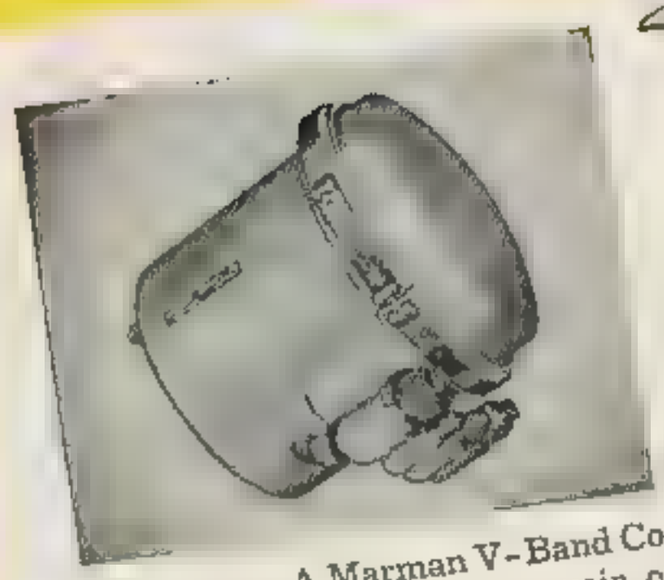
►**Shutdown Steps**—Inside, the engineers complete final reactor shutdown. The reactor control rods have been thrust home, and now the molten metal is blown out of the lines with warm helium. The turbines whine down, and the prop blur breaks into images of separate blades.

The flight is over; 50 hours, once around the world, no refueling in flight, no stops at advanced bases.

Fuel burned: One pound, more or less, of natural uranium.

And a flight such as this would be only the beginning. In times to come, there will be land planes as well, with fast reactors buried in their wings. Their flight times will be limited only by the level of sustained comfort that can be provided for the crew and the relief and their relief crew.

Eventually, the nuclear engine will be at the stage of development where commercial air transport using it will be competitive with gas turbine operational

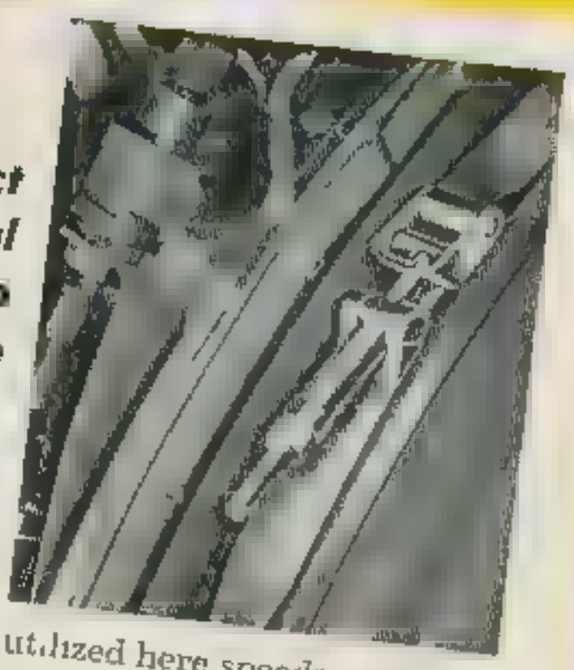


Reservoir Coupling Does Double Duty

A Marman V-Band Coupling attaches the bell end to the hydraulic reservoir of the high performing U.S. Air Force's Northrop Scorpion F-89. Providing a highly efficient and easily assembled seal, the Coupling serves also to attach reservoir to structure by means of two extra trunnions, illustrating the versatility of this standard unit.

(PHOTOS COURTESY NORTHROP AIRCRAFT)

ENGINEERS' NOTEBOOK



Duct Seal To Jet Engine

Another Marman V-Band Coupling provides effective seal with ease of assembly in connecting air inlet to jet engine on Northrop Scorpion. The quick coupler latch utilized here speeds assembly and disassembly, saving minutes and dollars in manufacturing and servicing.

Save Cost and Design Time With Marman
Standard Clamps for Special Applications 5

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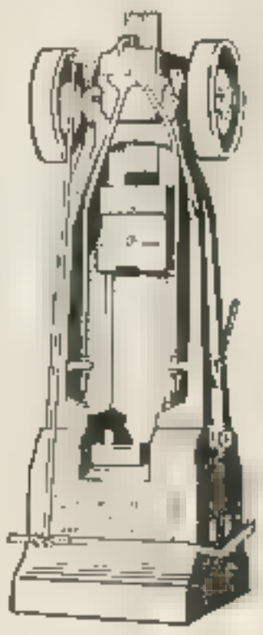
DROP FORGINGS

for

AIRCRAFT, PRECISION FORGINGS FROM ALLOY, STAINLESS AND CARBON STEELS, ALUMINUM — BRASS — COPPER BRONZE.

Our facilities are available for production and delivery of quality forgings to your specifications.



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319

CONSOLIDATED INDUSTRIES
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gets with the antenna mounted on top. Thus the problem of the ILS fixed path automatic landing system is that a B-36 would touch the ground with too much impact, while an F-84 might never quite touchdown at all automatically.

► **Development Contracts**—Here are some of the development contracts connected with military auto landing systems:

• **Sperry** has a contract on an angle-of-attack indicator and coupling with air speed control to make an altimeter flare-out approach and landing. Idea is to govern the airspeed with angle of attack for flare-out landing using airborne altimeter system.

• **Minneapolis-Honeywell** is developing another angle-of-attack airspeed control. M-H has been working on this with both Navy BuAer and Air Force without a development contract. But M-H is negotiating a contract with Air Force now for development of a fighter auto pilot with angle of attack and airspeed coupler. And M-H is working on projects, now in test, to meet requirements of the B-47, B-36 and B-50.

► **Integrated Unit**—M-H claims to be in the lead in development of angle-of-attack signal integrated into ILS coupler. That is the obvious step toward a wholly satisfactory auto pilot and auto landing control. Navy needs it most, for carrier landings, where stall speed and attitude of plane are so critical. M-H is even building an automatic throttle control, including final cut-off for automatic carrier landing, as well as automatic "waveoff" for when plane should not land but go around for another approach. M-H auto system takes all its readings from ILS or ship-borne transmitter. This completely automatic approach and landing (or waveoff), monitored from the ship by radar and in the cockpit by the pilot, who watches his flight instruments as a double check, will be ideal for carrier operations.

• **Hazeltine** has development contract to devise a self-checking feature for Air Force's airborne altimeter.

• **Eclipse-Pioneer** has the contract to develop nose wheel steering control for tower controlled taxiing after landing.

Latin Enterprise

Aerovias gets Miami, connects with NAL for New York service.

(McGraw-Hill World News)

Mexico City—The granting of Civil Aeronautic Board approval to the Mexican aviation company, Aerovias Guest, to fly to Miami from Mexico City on a daily schedule has had much greater reaction in the Mexican airline business than was expected.

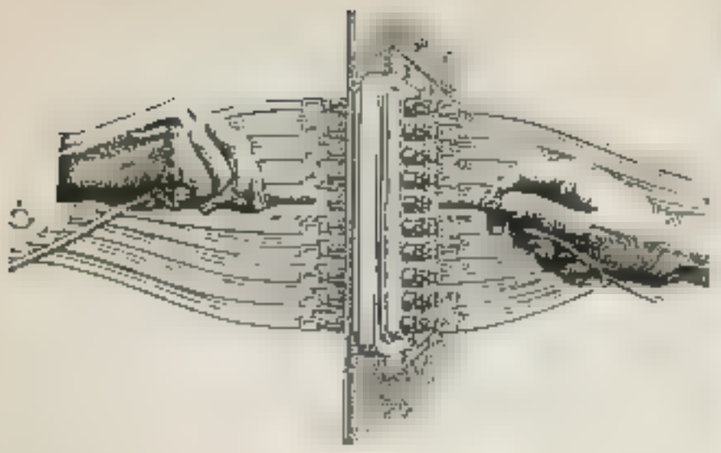
Aerovias Guest parlayed the Miami run into an agreement with National Airlines to pick up through passengers to Washington and New York, and now has undertaken an all-out advertising campaign in Mexico offering 9-hr., 50-min. flights to New York City from Mexico with a round trip fare of $210.30—which it claims is the lowest on this run.

Aerovias offers a one-stop service, the one stop being Miami where passengers are transferred to National.

► **PAA Disagrees**—Pan American, whose combination with Eastern Air Lines via San Antonio or Houston has long hauled the bulk of the Mexico City-New York business, has reacted most strongly and has come back with advertisements in the Mexico City press claiming that they really offer the fastest and most economical service. Pan American's regular fare on this is $215, but they point out that tourist service is offered on Eastern reducing the fare to $198.30 round trip.

American Airlines, which should have the advantage over all competition as it possesses the only through service between New York and Mexico City, actually has been most sluggish in promoting its flights and has failed to catch up with the international traffic carried by Pan American and Eastern

TWA
NOW...
Save up to 39%
on TWA round trips
to EUROPE
Take advantage of TWA's special 15-day round-trip fares . . . effective January 1 through March 16. The ONLY one-airline service between 60 U.S. cities and London, Frankfurt, Paris, Rome and other European capitals.
See your travel agent or call
Trans World Airlines
Across the U.S. and overseas . . . you can depend on TWA



Bulkhead Wire Panel

Electrical disconnect panels for pressurized compartments, designed for easy maintenance, have been developed by Burndy Engineering Co., Inc.

The largest of the type will accommodate up to 100 electrical circuits, each of which can be individually connected or disconnected from either side of the pressurized bulkhead where the panel is installed.

Wire leads are tipped by silver-plated connector pins which can be rapidly inserted into or removed from silver-plated sockets fitted into the pressure-tight phenolic panels. Spring locks in the sockets secure the connector pins firmly in place. Pins can be rapidly indented to the wire leads by means of simple installation tools, says the company. Socket identification numbers are molded into the phenolic on each side of the panel.

Burndy says panels already are "approved in major aircraft installations." Pin and socket assemblies take a "practical" range of conductor sizes and are available in 26-place round panels, 40-, 53-, and 100-place rectangular panels. Thermocouple sockets also can be supplied. Address: 107 Bruckner Blvd., New York 54, N. Y.

ALSO ON THE MARKET

"Ferramic" cores now are available in cup, ring, "E" or "I" shapes. Parts made of this soft magnetic material are extruded, machined or molded at low cost—rather than laminated—by General Ceramics and Steatite Corp., Keasby, N. J.

Horizontal hydraulic boring machine will cut holes ⅝ to 6½ in. in dia. to tolerance of .0003 in. Produced in 200- and 300-lb. models, machine holds work stationary and only boring tool revolves. Made by Hydro-Borer Co., 1511 W. Florence, Inglewood, Calif.

Silver-clad steel for aircraft ball bearings, electrical contacts and other parts now is available as substitute for brass, copper nickel-silver and other hard-to-get metals from the Rolled Plate division of American Silver Co., Inc., 36-07 Prince St., Flushing, N. Y.

Now TWA offers *Luxurious ALL-sleeper service*

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The only all-sleeper flights overnight to

LONDON and PARIS

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Across the U.S. and overseas... you can depend on

TWA

TRANS WORLD AIRLINES

THERMOCOUPLE

EXTENSION LEADS & HARNESSES

Install Thermo Electric's Extension Lead Assemblies in your Thermocouple Circuits! You eliminate cutting and preparing lead wires, soldering terminals and checking resistance. These Lead Assemblies of Iron Constantan or Copper Constantan are made in lengths of from 5 to 50 feet, in increments of 5 feet, for 2 or 8 ohm resistances or in lengths up to 200 feet, with Balancing Resistor (AN 5534-1) for 8 ohm resistance.

Paralleling Harnesses for Multi-Thermocouple circuits used for Test Stand or Engine Use, can be supplied to meet individual engine specifications.

Send us the specifications of your lead and harness requirements; we will quote on your needs.

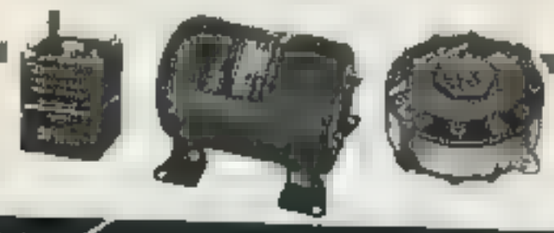
Thermo Electric

FAIR LAWN NEW JERSEY

High pressure or low, there is a Giannini precision pressure transmitter that meets your requirements for remote indication, recording or control.

From less than 1 up to 10,000 psi, with various types of resistance and inductive output values, Giannini precision pressure transmitters are designed to withstand extremes of acceleration, temperature, vibration, while at the same time retaining their accuracy and their fast response characteristics. "They are standard with the Leaders." Write for booklet.

G. M. Giannini & Co., Inc., Pasadena 1, California



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rival over the tower at Idlewild at 20,000 ft., elapsed time was 2 hr. 23 min. After descending into the traffic pattern, the plane landed 13 min. later at LaGuardia.

► **Flight Data**—Cruise was at 35,000 ft. at a true airspeed of 420-443 mph. Overall average airspeed, including climb as well as cruise, was 380 mph. Overall average ground speed, including climb and cruise, was 456 mph. (average tailwind was 76 mph.).

Fuel consumed on the run was 2200 gal.

On the previous run from Toronto, Canada, to Tampa, Fla., Jan. 22, time was 2 hr. 56 min. for the 1130-mi. distance, wheels off to arrival over tower. Fuel consumed was 2400 gal.

On the trip from Tampa to Miami, where the northbound flight began, E. J. Kershaw, National's vice-president in charge of operations was on board.

The Jetliner now is in the hangar at Avro's Malton plant for the 200 hr. inspection.

CAB Okays EAL for N.Y.-Puerto Rico Run

The Civil Aeronautics Board in its first important decision this year granted New York Puerto Rico service to both Eastern Air Lines for persons and cargo and Riddle Aviation Co. for cargo only.

More CAB decisions are near, now that Board Chairman Delos Rentzel is settled in his new job, the CAB reorganization blueprint is ready, and mobilization plans are taking shape. Plenty of action is near if the new five-man Board backs the program and policy statement outlined by Rentzel last month (AVIATION WEEK Jan. 22).

CAB granted additional service between Puerto Rico and New York to Eastern and Riddle for a "temporary" period of five years. President Truman approved. Reason given by the Board for its decision to add these services to those already supplied by Pan American World Airways: "The outstanding need . . . is for the movement between the New York area and Puerto Rico of large numbers of people of limited means . . . (and) the dominant need to be met is that for low-cost service."

But although the Board said it was sure Eastern would give most attention to cut-rate transport, Eastern may also compete with Pan American for regular-fare service.

Board member Harold Jones dissented from the majority decision. He sees no need for additional air service between San Juan and New York.

The Board in granting Eastern authority to carry persons, property and mail, New York San Juan, ordered an investigation "to determine whether the service presently operated by Eastern, Miami-San Juan, should be suspended."

Some important cases that should break open soon are Southern Service to the West; Trans-Texas Airways certificate renewal; New York helicopter service; trans-Atlantic freight case; final decision on back mail pay or debt of Western Airlines, and Inland Airlines; final mail rates for American Airlines, Colonial Airlines, Eastern Airlines, National Airlines, Northeast Airlines, Northwest Airlines, Trans World Airlines, and United Air Lines.

Change Expected in Rail Travel Clause

Airlines may at last get a fair share of business from military travel orders to officers and men after June 30 of this year. Reason is that the new military travel regulations and contracts between the Military Traffic Service and the air, rail, and bus industries will be reworded to eliminate the "rail prefe-ence clause" for fiscal 1951-2.

The rail preference clause instructs military agencies to dispatch men by rail, unless other means are cheaper or otherwise required. That clause has prejudiced the decisions of many dispatching agencies—since it tends to

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"intercontinental." CAA sets up the following criteria for an intercontinental: 375,000 passengers enplaning per year, provided average flight length is 328 miles or more; or 75,000-375,000 passengers flying an average of 600 miles or more. Basic reason for the flight-length figure is that big planes and long flights require more terminal facilities than the small planes on shorter hauls.

A town can't get CAA-administered federal aid to build its airport bigger than the size-class its traffic warrants.

Timetable for 2-0-2 Modifications

Two CAA airworthiness directives fix mandatory modification dates for the Martin 2-0-2. These comply with recommendations of the Martin 2-0-2 Modification Board. The board found no evidence of any fault that could have directly contributed to recent Northwest Airlines' 2-0-2 accidents.

CAA says all the following changes can be made by other than the stated method if they give equivalent safety. The mandatory changes and required dates of compliance:

- **June 16.** Redesign DC-input circuit breaker mounting by covering or turning 180 deg. to prevent inadvertent short circuit.
- **Aug. 16.** Cut breaker rating for propeller anti-icing circuit to 5 amp. for No. 20 wire (model 2-0-2 only). Put a negative pressure scoop on battery vent line.
- **Oct. 1.** Improve landing gear position indicating system to reduce chance of getting a "safe" indication when gear is unsafe (Martin Svc. Bul. Nos. 163A for Model 2-0-2A, and 168 for the 2-0-2 cover same subject). Provide system independent of wing heat for windshield anti-icing, de-icing, defogging, and bird-proofing (Model 2-0-2 only).
- **Oct. 16.** Add hand-operated charging valve in emergency brake hydraulic system, following Martin Svc. Bul. No. 185.
- **Nov. 1.** Give more heat to critical areas of the wing for anti-icing (Model 2-0-2 only).
- **Dec. 16.** Install circuit breaker in circuit breaker panel with wire routed back to auxiliary bus control relay. Provide circuit protection to voltmeter, main bus for generator trip light circuit, and ammeter wires.
- **Jan. 1, 1952.** Redesign heater fuel control box to make leak-tight and provide adequate draining. Relocate emergency high heat switches to eliminate lag (Model 2-0-2 only). Redesign fire-detection circuit to eliminate stepping relay (Model 2-0-2 only).

Other requirements:

Before reactivising the autopilot, re-

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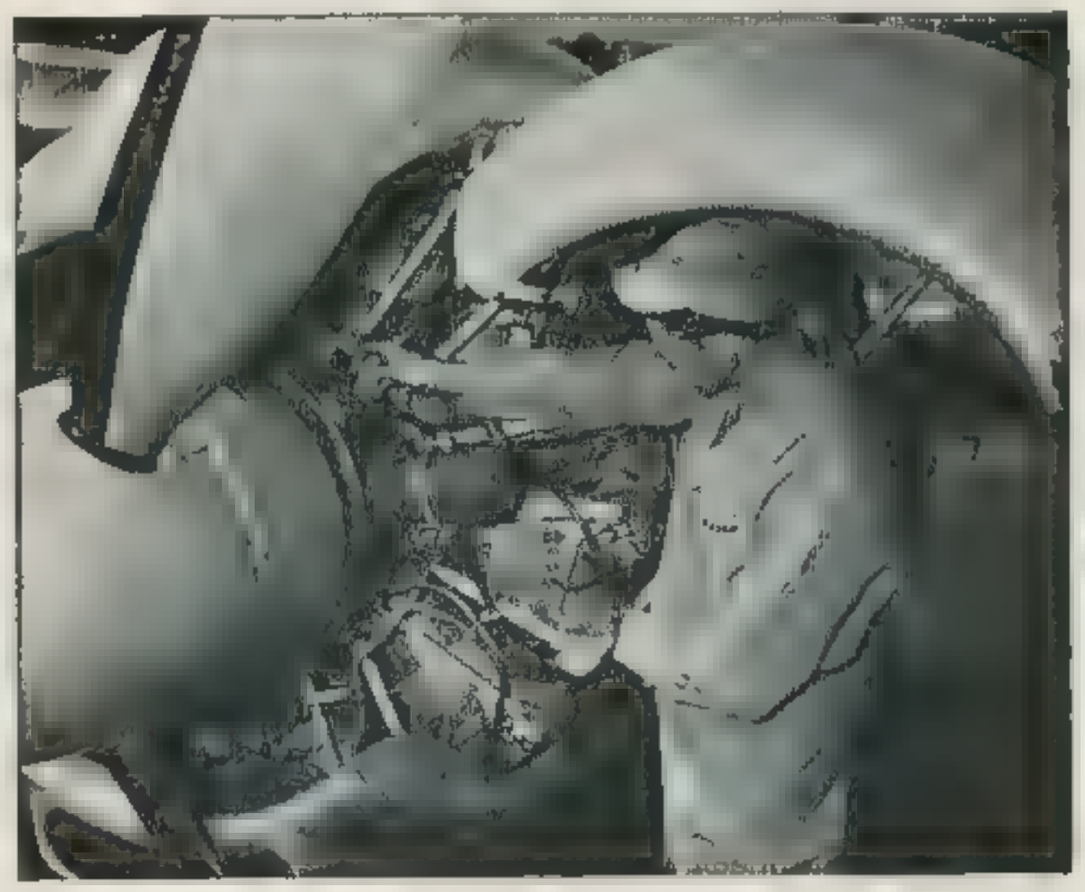

4 hot ideas for fighting ice

The pipe that flies like a plane. Boeing's new Flying Boom for in-flight refueling (upper left) is actually flown into place by means of vee-shaped ruddevators. To provide accurate control, these ruddevators had to be protected against ice. B. F. Goodrich developed special electric rubber pads for the leading edges that supply spot anti-icing heat.

Electric blankets keep new Arctic plane from freezing. Designed for Arctic rescue work, Northrop's new C-125 (upper right) had to have ice protection at all vital spots. BFG electric rubber "blankets" turned the trick for three parts—antenna mast, elevator horn and air scoops. Because of the design flexibility of electric rubber, wide variation in the shape of these three parts proved no obstacle.

Keeps ice from choking jet's throat. Ice forming in the narrow "throat" of a jet engine intake could choke off the air supply, make the engine quit cold. This threat has been eliminated on North American's B-45 (lower left) with a special lining of BFG electric rubber inside the cowl.

Rubber makes gasoline stretch. To help flight engineers adjust fuel supply for maximum efficiency, a hydraulic line transmits propeller load to an instrument panel dial. But cold was congealing the oil, causing false readings. BFG engineers sheathed the hydraulic line in electric rubber to keep the oil fluid, save gasoline. This heated line is now standard on TWA Constellations (lower right)

B. F. Goodrich electric rubber is tough, thin rubber with a core of resistance wires that provide spot heat precisely as needed. Two lead wires attached to the airplane's regular power supply are the only other equipment required. Electric rubber can be made to fit any size, any shape airplane part. For help with your problems write to *The B. F. Goodrich Company, Aeronautical Division, Akron, Ohio.*

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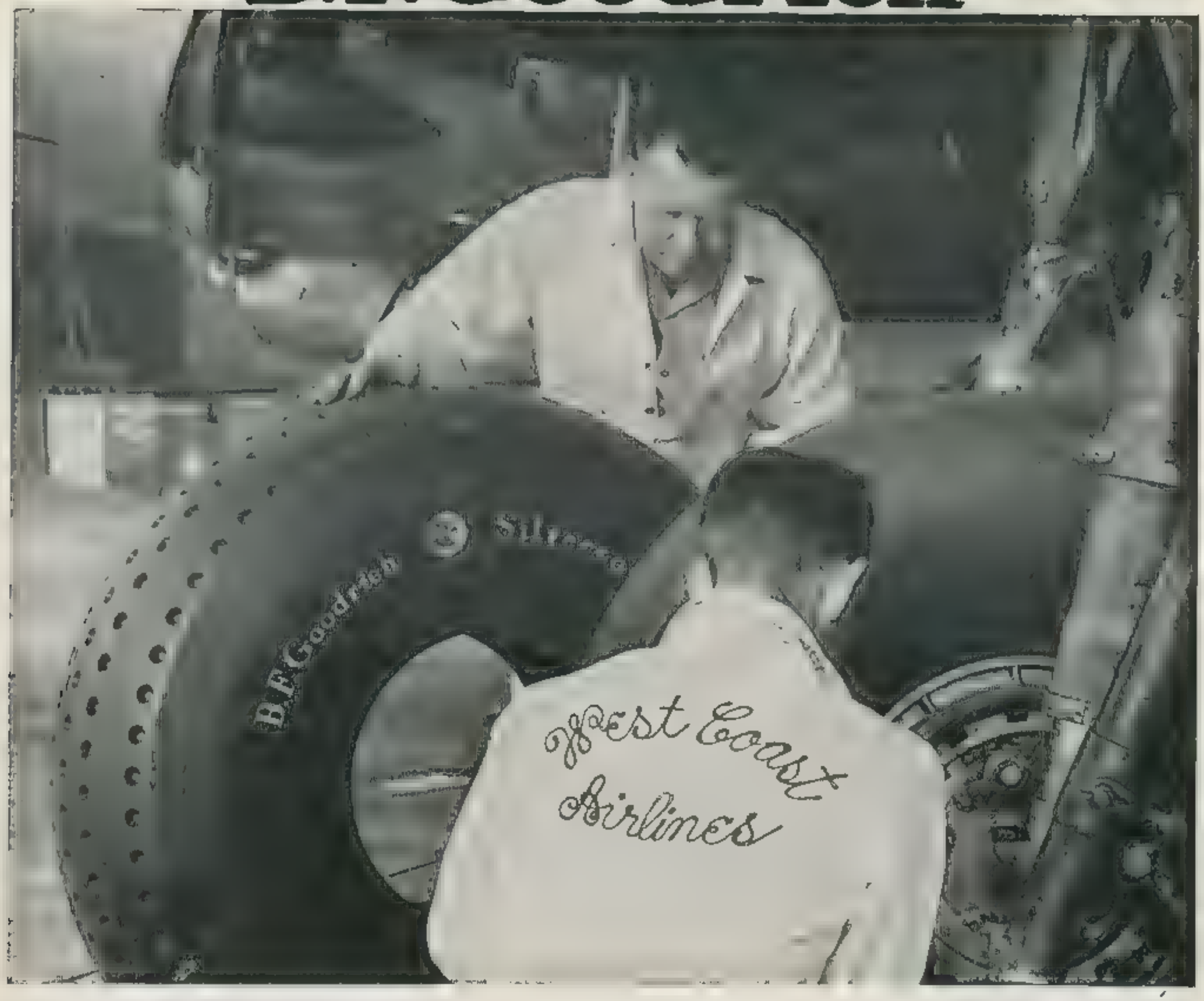

New kind of tire outwears all others in airline tests

A NEW IDEA in aviation tires, designed to give longer service life, has been introduced by B. F. Goodrich.

Instead of the conventional ribbed tread, the new tire has rows of "dimples" —round indentations in the rubber.

B. F. Goodrich engineers had two things in mind in developing the new design. (1) provide better distribution of the load, and (2) reduce exposure to tread cutting. In early airline tests, the results were even better than expected Other airlines agreed to test the new tires. Various sizes were tested, on DC-3s, DC-4s, and DC-6s.

This report from West Coast Airlines is typical: "We removed the tires after 400 hours, 1200 landings. In the process of recapping, we discovered that there was enough rubber left for about 100 hours more, a total of 1500 landings. These tires have given us longer service than any we have used."

Some of the airlines that tested the new tires and are now using them as standard equipment are Braniff, United, American, Continental, Frontier, National, and West Coast. Still more airlines are now starting to switch.

This new, longer wearing tire is the latest B. F. Goodrich "first" in aviation tires. Others include the first Type II (high pressure), forerunner of the Type VII. The first Type III (low pressure). The first practical prerotation tire. First recommendation of multiple tires for commercial use. First inertia type dynamometer for tire testing. *The B. F. Goodrich Company, Aeronautical Division, Akron, Ohio.*

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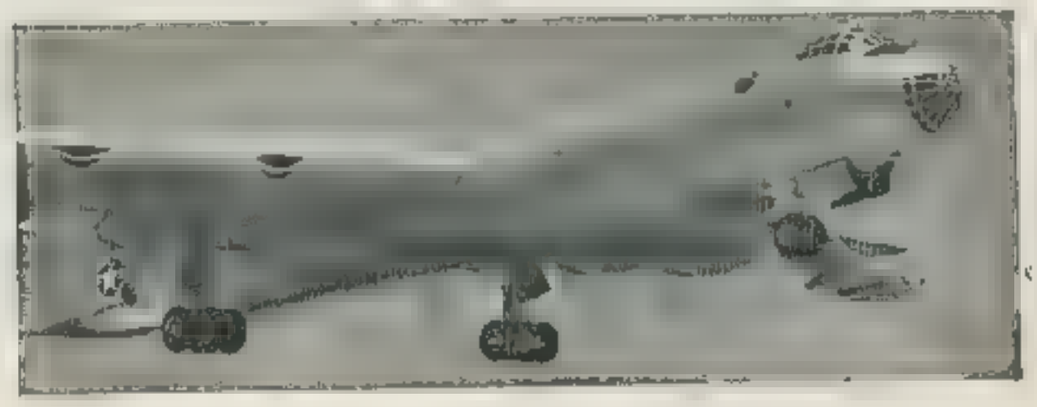

New brake block saves weight, improves braking, lasts longer

A NEW KIND of brake block has been developed by B. F. Goodrich. It is now in use in the BFG Expander Tube brakes on the planes above—the Douglas C-124, North American's B-45, Boeing's B-47 and Convair's B-36.

Secret of the new brake block: there are *no rivets*. Instead, the brake lining is *cemented* onto a special magnesium shoe with a new, super-strong B. F. Goodrich cement.

Elimination of the rivets makes it possible to use more of the brake lining. You get full, positive braking down almost to the metal backing!

The magnesium backing also makes the brake block more rigid, providing full, even contact between lining and drum for better braking. The shoe is perforated for better dissipation of heat.

This construction is both lighter and stronger than the rivet type.

Besides the new brake block, the new-design B. F. Goodrich brake on these planes also has a narrow-cavity expander tube that gives greater braking pressure with less fluid. And a new spider-type frame that provides extra strength with less weight.

The basic BFG expander tube design offers still other advantages. Less weight for a given amount of kinetic energy than any other brake. Ability to take emergency overloads better. No locking or grabbing. Quicker, easier maintenance. Longer life. For help with your brake problems call on B. F. Goodrich engineering skill. *The B. F. Goodrich Company, Aeronautical Division, Akron, Ohio.*

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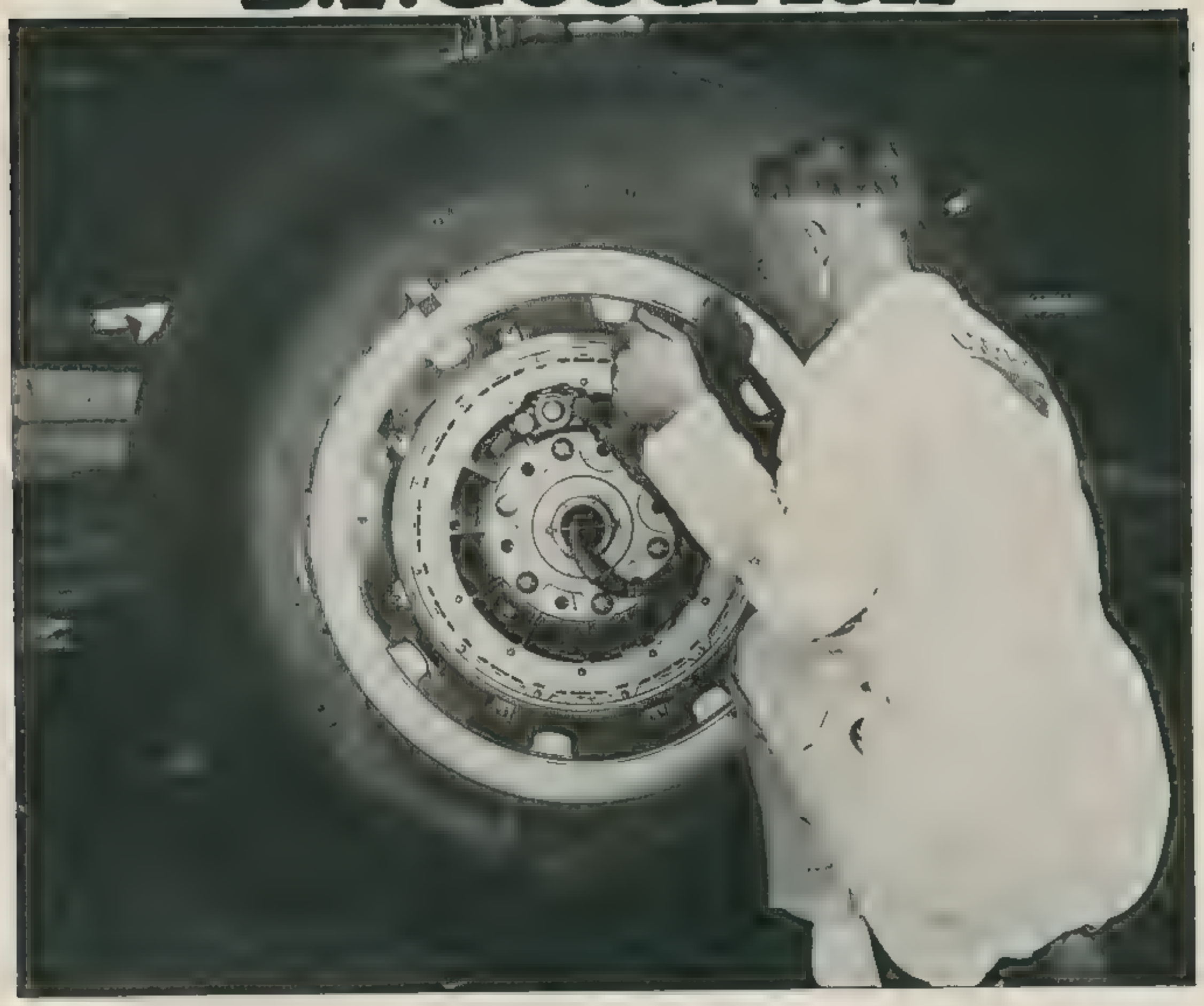

Weight taken from plane's brakes goes into its wallop

THE NAVY NEPTUNE tracks down "snorkels" with electronic search equipment that these ordinarily radar-proof subs can't hide from. And it packs a powerful wallop with torpedoes, rockets, cannon, and machine guns.

But carrying all this equipment gave Lockheed designers a problem. Every possible pound had to be trimmed off the Neptune's empty weight. When it came to the wheel and brake assembly, they put the problem up to B. F. Goodrich.

B. F. Goodrich brakes can be designed lighter for a given amount of kinetic energy than any other brake because of expander tube design. The brake lining in new-design B. F. Goodrich Expander Tube brakes is mounted on magnesium shoes—a construction that is lighter, yet gives longer wear The brake has a new spider-type frame that's both lighter and stronger. And the wheels themselves are light, strong magnesium castings. As a result, B. F. Goodrich wheel and brake assemblies enabled designers of the Lockheed P2V Neptune to save a sizeable amount of weight over other designs.

The BFG brakes also provide smoother, safer landings. They respond smoothly and quickly to minimum pressure, take emergency overloads better, cannot lock or grab. Plane utilization is increased because there's less in-shop time Loads are evenly distributed, reducing wear on brake parts. Maintenance is cut.

The new B. F. Goodrich wheel and brake assembly is one of many effective solutions to aviation problems developed by B. F. Goodrich research and engineering. *The B. F. Goodrich Company, Aeronautical Division, Akron, Ohio.*

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A seal that saves muscle zips off to save time

BOEING DESIGNERS put powered surface controls in the B-47 Stratojet, USAF's fastest bomber, to make it handle light and smooth. They decided to have direct manual controls, too, for emergencies.

When it came to the elevators, they ran into a problem. They wanted to put a flap seal between the elevator and the stabilizer. Its purpose was to prevent flow of air through the hinge area, making manual operation of the controls much easier.

But there was a hitch. Removing the flap seal for elevator maintenance would be a long, costly job.

B. F. Goodrich engineers had an idea that BFG Pressure Sealing Zippers, which had turned the trick for aileron seals, would work just as well on elevators. Tests showed they were right.

The zipper's overlapping rubber lips provide a 100% effective seal against air pressure. It takes less muscle to move the elevators. And the zipper also puts a lot of hustle into elevator maintenance Instead of removing one screw after another to detach the flap seal, mechanics can simply unzip it. If a new elevator is installed, the new and old halves of the zipper mesh perfectly.

B. F. Goodrich Pressure Sealing Zippers fit snugly around complex shapes. They can be cemented onto either fabric or metal. They save space and weight. Successful applications include airplane doors, air ducts, inverter covers and watertight protective coverings.

For information on Pressure Sealing Zippers, their construction, application and available styles, write for a free copy of our new booklet,"Hold Everything". *The B. F. Goodrich Company, Aeronautical Division, Akron, Ohio.*

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How they bring this plane down to keep costs from going up

BOEING Stratocruisers fly the colors of four major airlines—Pan American World Airways, Northwest Airlines British Overseas Airways Corporation, and United Air Lines. The total number of Stratocruisers used by these lines is well over fifty. And every one of them is equipped with B. F. Goodrich Expander Tube brakes.

One big reason: to keep landing costs down.

Maintenance costs are reduced with B. F. Goodrich brakes because many parts found in other brakes are eliminated. Relining can be handled with a screwdriver and wrench. Because the expander tube braking action covers a full circle, the load is better distributed, wear is slower and spread more evenly

The brake block in the B. F. Goodrich Stratocruiser brakes provides greater, more even contact between the lining and the drum. It permits greater brake loading without overheating. And because there are no rivets, it uses all the lining. Airlines get full, positive braking down almost to the metal backing.

BFG brakes also give extra safety—respond smoothly, powerfully to minimum pressure. They cannot lock or grab. They take emergency overloads better

B. F. Goodrich Expander Tube brakes are a product of BFG research and engineering. For help in designing them into new or existing planes, write *The B. F. Goodrich Company, Aeronautical Division, Akron, Ohio.*

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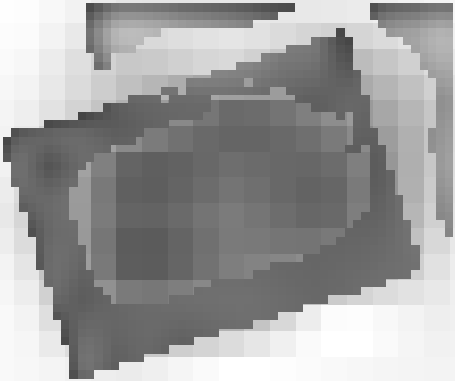

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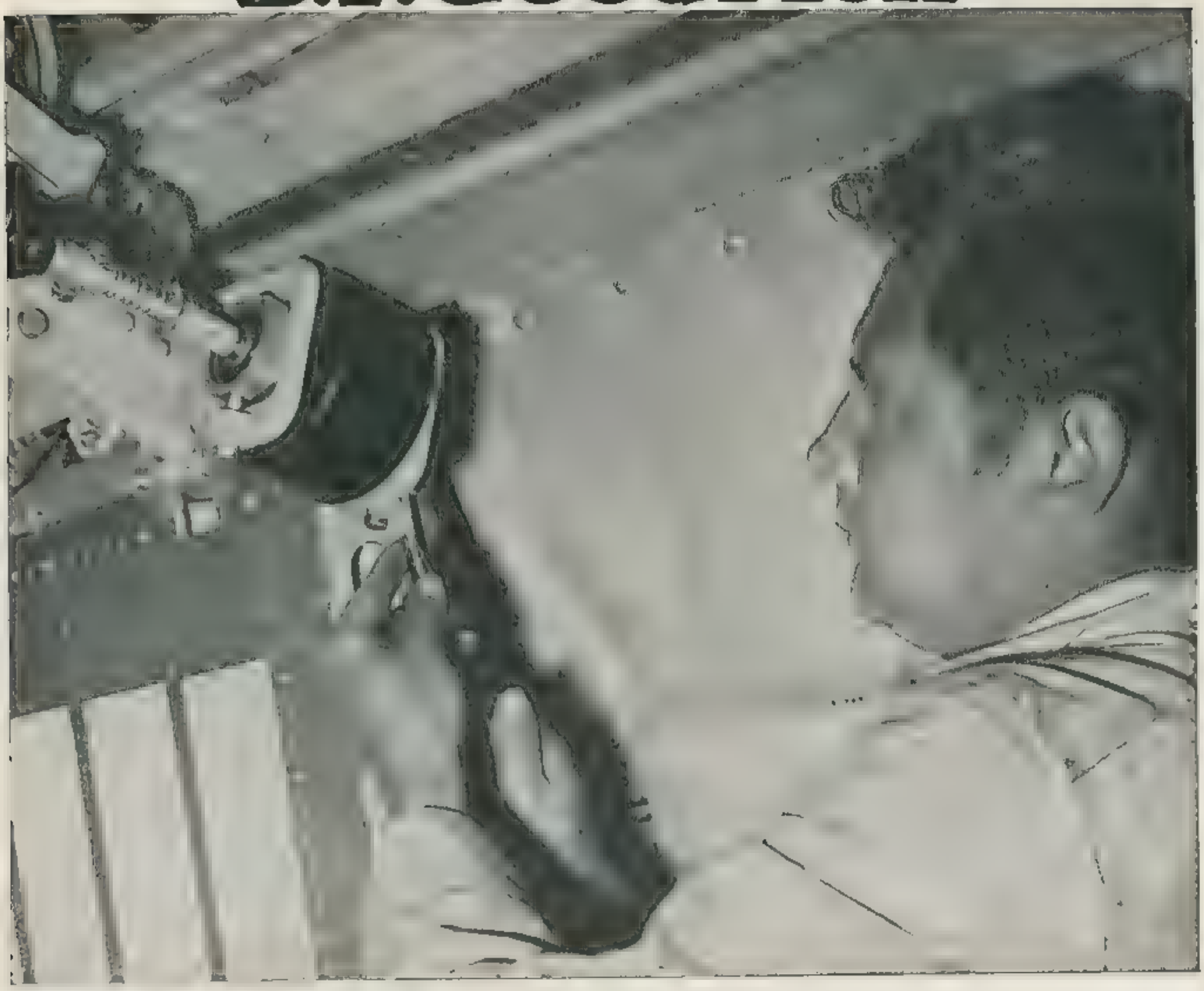

Airplane fire brings costs down to earth without touching the ground

ONE OF THE BIG COSTS of moving cargo by air is the time and expense of getting it on and off the plane. But when Douglas designed the Globemaster II, they had some ideas which promised to cut plane loading costs way down. They put huge clamshell doors and ramps into the nose for faster loading. And amidships they installed an elevator that would handle cargo in a fraction of the usual time.

The elevator was designed to be powered by two electric hoists with rubber-tired driving wheels. But here, the Douglas engineers ran into a problem. The wheels called for 6-inch rubber tires which would give good traction under all kinds of operating conditions The tires would have to withstand temperatures of —60°F without shrinking away from the track they rolled on They would also have to take heavy loads without becoming permanently misshapen. Looking for the right kind of rubber to do this job, Douglas engineers brought the problem to B. F. Goodrich.

In manufacturing pallet rollers—rubber wheels that carry heavy loads in factories—B. F. Goodrich had already developed a special rubber compound which looked as though it might do the trick. Tires were made of this compound for the Douglas C-124 and were tested under extreme temperatures and loads. And the little tires proved to be the answer. They're another example of how B. F. Goodrich research in rubber is helping the aviation industry with some of its toughest problems. *The B. F. Goodrich Company, Aeronautical Division, Akron, Ohio.*

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New B.F. Goodrich tire outwears all others in airline tests

A NEW IDEA in aviation tires, designed to give longer service life, has been introduced by B. F. Goodrich.

Instead of the conventional ribbed tread, the new tire has rows of "dimples" —round indentations in the rubber.

B. F. Goodrich engineers had two things in mind in developing the new design: (1) provide better distribution of the load, and (2) reduce exposure to tread cutting.

First airline to test the new BFG Dimpled tire was Braniff International Airways, who furnished the photo above. Average tire life improved so much that they have standardized on the new tire throughout their entire fleet.

Fourteen other airlines who have tested the B. F. Goodrich Dimpled tire report the same results: the new tread outwears all others used. And five airlines in addition to Braniff have made the new tire standard equipment, in the sizes tested—on DC-3s, 4s and 6s. Still more airlines are now starting to switch.

Tooling up for production of the Dimpled tire in four additional sizes is now under way at B. F. Goodrich.

The new, longer wearing Dimpled tire is the latest "first" in aviation tires from B. F. Goodrich, the leader in rubber research and engineering. *The B. F. Goodrich Company, Aeronautical Division, Akron, Ohio.*

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Sealed lips hold the secret of faster maintenance

EVERY time an airplane's aileron is removed for overhaul, the flap seal —long strip of coated fabric between aileron and wing—has to come off too. But detaching the seal on some of the bigger planes was a headache. The seals, up to 60 feet long, were fastened by screws along their entire length. And removing these hundreds of screws for every aileron maintenance job ate up a lot of man-hours.

Engineers at Convair, who were working on an aileron seal for the B-36, had an idea that B. F. Goodrich engineers might have developed a better way of doing that kind of sealing job. They had. It was the Pressure Sealing Zipper —a zipper made with molded rubber lips along its entire length.

Put into service on B-36's, this zipper with rubber lips did the job. The overlapping lips provided a 100% effective seal against air pressure. And instead of tediously removing one screw after another to detach the flap seal, mechanics now simply unzip it. And if a new aileron is installed, the zippers mesh as easily as joining a coat lining in a man's jacket.

B. F. Goodrich Pressure Sealing Zippers are adaptable to any kind of covering, can be used for light or heavy service. They save weight and space. They fit snugly around any shape, can be *cemented* onto either fabric or metal. Typical applications include control surface seals, air ducts, airplane doors, inverter covers. To get the help of B. F. Goodrich research and engineering with your problem, write *The B. F Goodrich Company, Aeronautical Division, Akron, Ohio.*

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Easier way to fly a plane ...or fix one

LOCKHEED ENGINEERS were looking for a way to seal the gap between elevator and stabilizer on the P2V-5 "Neptune", thus make controls easier to operate. A flap seal—long strip of coated fabric—would do the trick. But an ordinary flap seal poses a maintenance problem. Every time an elevator is taken off for service, the flap seal must be removed too. And with ordinary flap seals, that's a long, costly job.

So Lockheed engineers came to B. F. Goodrich with the problem. And B. F Goodrich had the answer—the Pressure Sealing Zipper.

The zipper's overlapping rubber lips provide a 100% effective seal against pressure. As a result, the elevator controls are easier to operate. When an elevator is removed, mechanics simply unzip the seal instead of laboriously taking out one screw after another. If a new elevator is installed, old and new halves of the zipper mesh perfectly, since all halves of the zipper are interchangeable. And the zipper makes it easier to get a tight-fitting seal around the hump shown over the man's arm in the photo.

B. F. Goodrich Pressure Sealing Zippers can be cemented onto either fabric or metal. They save space and weight. Fit snugly around complex shapes. Are used on airplane doors, air ducts, inverter covers, watertight protective coverings. For information on construction and applications of Pressure Sealing Zippers, write for our new booklet, "Hold Everything". *The B. F. Goodrich Company, Aeronautical Division, Akron, Ohio.*

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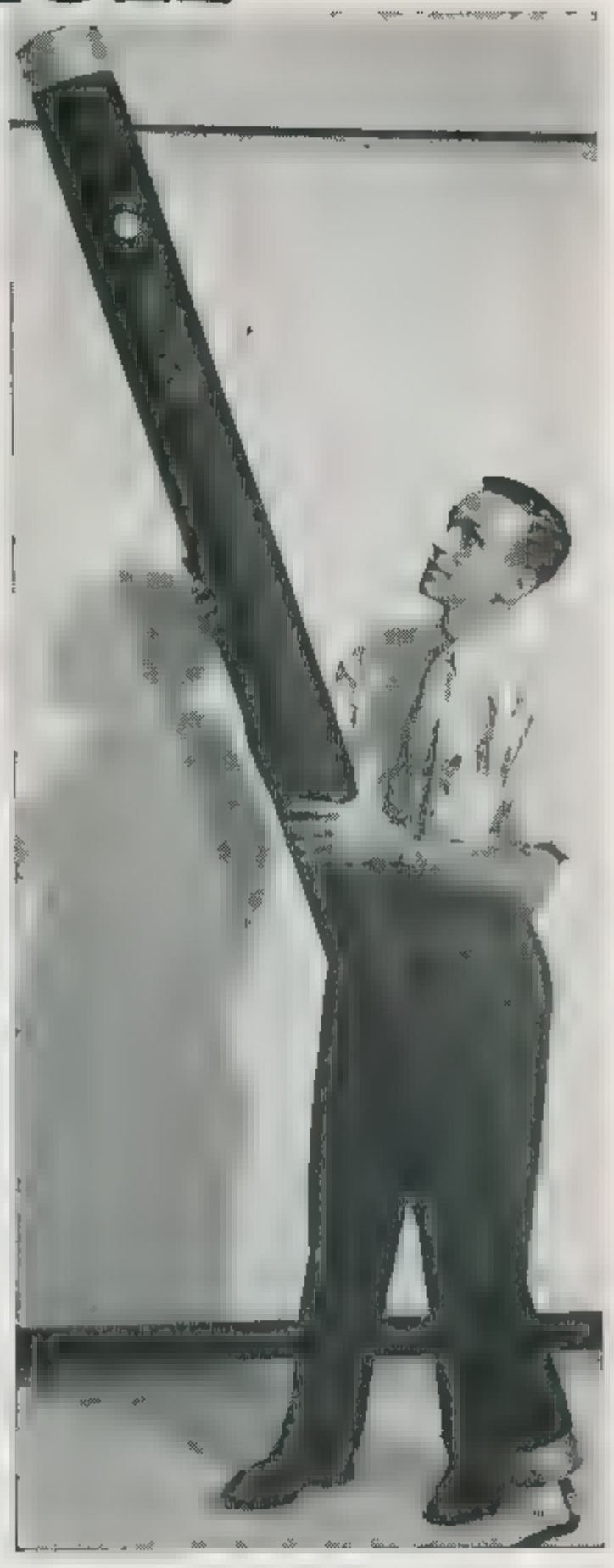

Rubber boot cushions a fuel line's kick

IN THE FLYING BOOM—Boeing's new device for high pressure mid-air refueling—the gasoline sometimes has to be shut off suddenly at the nozzle. This posed a problem to the designers because the surging fluid would deliver a thumping kick to the pipe—like turning off a water faucet too quickly Damage to the mechanism might result

Boeing engineers had an idea on how to cushion the jolt. It was a section of perforated metal fuel line, surrounded by a surge boot—one rubber sleeve inside another with an air chamber between them. The pressurized air within the boot would provide the cushion to absorb the kick.

The only hitch was . . . could a boot be made that would do this job? They came to B. F. Goodrich for the answer. It had to be light in weight, yet strong enough to take the impact of the surging fuel. It had to remain flexible at low temperatures. It had to be fastened to metal end-fittings with an air-tight, liquid-tight seal

B. F. Goodrich engineers went to work on the problem. They came up with a new material for the envelopes —man-made rubber on nylon fabric. It is light in weight and does not stiffen from cold. They found a way to form a 100% effective seal between the sleeves and the end-fittings. The whole assembly weighed only 15 pounds.

Put to the test, the new BFG surge boot did the trick, prevented damaging kicks to the fuel pipe. It's another example of the effective solutions to aviation problems developed by B. F. Goodrich engineering and research *The B. F. Goodrich Company, Aeronautical Division, Akron, Ohio.*

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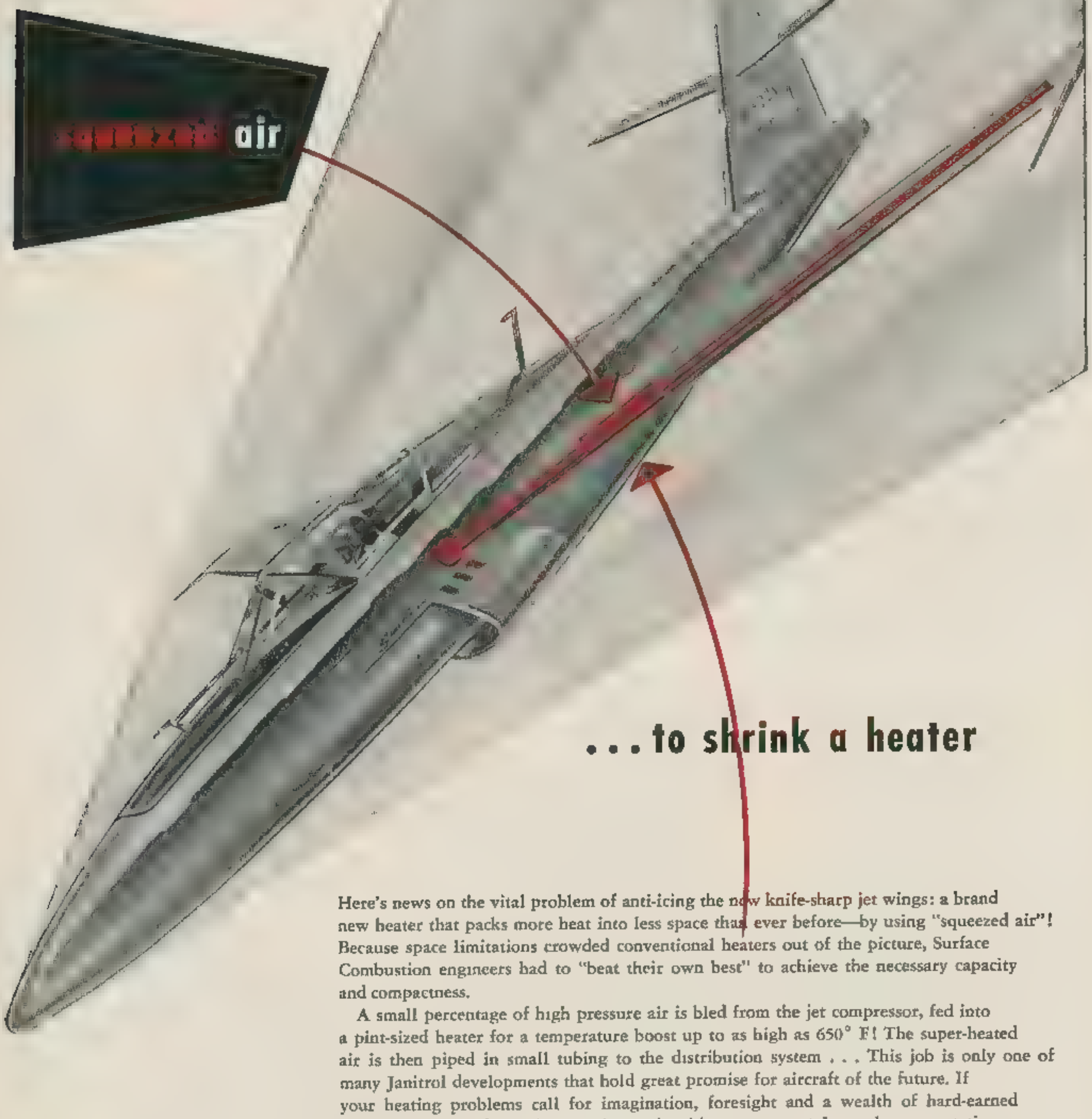
combustion engineering
— in action —
for air progress



. . . to shrink a heater

Here's news on the vital problem of anti-icing the new knife-sharp jet wings: a brand new heater that packs more heat into less space than ever before—by using "squeezed air"! Because space limitations crowded conventional heaters out of the picture, Surface Combustion engineers had to "beat their own best" to achieve the necessary capacity and compactness.

A small percentage of high pressure air is bled from the jet compressor, fed into a pint-sized heater for a temperature boost up to as high as 650° F! The super-heated air is then piped in small tubing to the distribution system . . . This job is only one of many Janitrol developments that hold great promise for aircraft of the future. If your heating problems call for imagination, foresight and a wealth of hard-earned experience you'll do well to get in touch with your nearest Janitrol representative.

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a throttle handle anywhere; all control is done by push-buttons to operate servo systems responding either to manual operation or monitoring instruments.

►**Second Engineer**—Seated with his back to the first engineer is the second, whose job more nearly corresponds to that of a current flight engineer. His desk is cluttered with control units for propellers, the auxiliary powerplant, flaps and the rocket engine. The panel above the desk mounts cabin comfortization controls and their indicators. There are a few monitoring lights in a row at the top of the panel.

Third man of the team faces outboard. His desk and controls are for one purpose only—safety. To this station, from all over the ship, radiation monitors supply continuous information on the radioactivity count of any station. Flashing red warning lights go on whenever the background count or random noise level is exceeded on any detector. And these warning lights are further protected with safety devices to tell when the power supply falters, or if vibration or accident should break any of the detecting circuits

Third engineer has a fire control system which is compartmentized, like that of any large craft. But he also has a compartmentized radiation control system, by which he can smother locally any dangerous radioactivity, such as would come from a piping leak.

►**Nerve Center**—These three engineers control the airplane as well as its powerplant. They tell the pilot when to take off, when to reduce power and at what rate. This room is the real nerve center of the entire craft.

From here, you climb a ladder to the flight deck. Here are locations for pilot, co-pilot and navigator. The radio operator has his shack a little apart from the rest of the flight deck. Nothing is basically different here from any other big airplane you've seen. And so the inspection of this area is merely a formality.

The word is passed around that takeoff time is coming up. The group splits up, the crew going to their stations and the few observers going aft to a small passenger section.

Down below in the engine room, the second engineer, after going through his checkoff list, starts an auxiliary gas turbine

►**Dual Purpose**—The role of this gas turbine is to furnish heat for two purposes. One of these is to melt initially the sodium-potassium alloy which is used as the heat-transfer medium in the reactor. This alloy has a low melting point, and once molten, is pumped through the reactor and through the hot side of the heat exchanger in continuous cycling.

The second purpose is to warm helium gas used to purge the heat transfer

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★ ★

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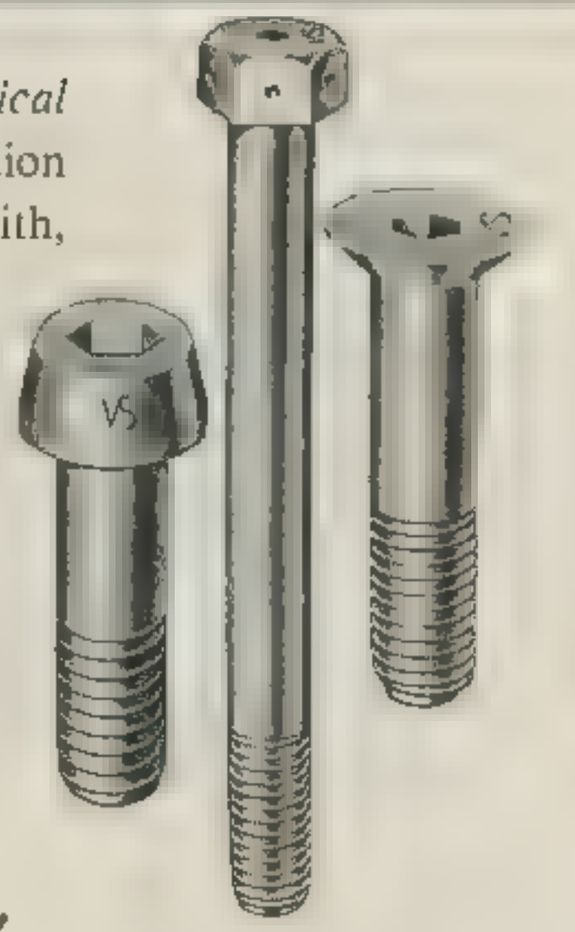
★ ★

With appreciation to *Wright Aeronautical Corporation*, for bringing to our attention these memorable words of C. R. Smith, President of *American Airlines*.

Aircraft Bolts carry a heavy load of responsibility—because they must FLY. VOI-SHAN bolts have a *proved* record of dependability in meeting all requirements of the aircraft industry.



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assemblies of jet engine powerplants.

• **Future** — The few subcontractors sought now will fill requirements for the next year or so

GE embraced large-scale subcontracting more than two years ago when it moved into the World War II Wright plant at Lockland, Ohio. That plant has been used only for assembly, the entire engine being manufactured elsewhere by approximately 240 subcontractors.

• **Address**—General Electric Co., Aircraft Gas Turbine division, Lockland Ohio; or West Lynn, Mass. (Headquarters of AGT division is in process of being moved from West Lynn to Lockland.)

HILLER

• **Current Status**—Actively seeking subcontractors now and will be for the next year.

• **Subcontract Items**—Transmissions, bodies, tail booms and blades.

• **Future**—This helicopter manufacturer presently is subcontracting about 50 percent of finished work by volume and value, and is paying out about $5 million a year to subcontractors. But it expects those ratios to decrease within the next year.

• **Address** — Hiller Helicopters, 1350 Willow Road, Palo Alto, Calif.

KAMAN

• **Current Status**—Will be actively seeking subcontractors in three months.

• **Subcontract Items**—Engines, landing gear, castings, forgings, gears, machining.

• **Future**—Company presently subcontracts 60 percent of finished work by weight, and expects this ratio to increase within the next year.

• **Address**—Kaman Aircraft Corp., Bradley Field, Windsor Locks, Conn.

MARTIN

• **Current Status**—Not actively seeking subcontractors now.

• **Subcontract Items**—Fuselage sections, wing panels, other subassemblies.

• **Future**—Martin is in the pre-production planning stage on the Canberra twin-jet light bomber. The company reports it will be actively seeking subs in two years. But despite the time-consuming task of changing British drawings and specifications to their U.S equivalents, it could be assumed that Martin would be ready to line up a list of potential subs before two years.

• **Address**—Glenn L. Martin Co., Middle River, Md.

McDONNELL

• **Current Status**—Not actively seeking subcontractors now.

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BRISTOL

FINE PRECISION INSTRUMENTS FOR OVER 60 YEARS

• **Subcontract Items**—Landing gear, tip tanks, hydraulic cylinders.
• **Future**—While not anticipating any increase in subcontracting activity, this company wants to build up a list of qualified sources.
• **Address**—Purchasing Agent, Outside Production, McDonnell Aircraft Corp., P. O. Box 516, St. Louis 3

RYAN

• **Current Status**—Actively seeking subcontractors now
• **Subcontract Items**—Miscellaneous mechanical and sheet metal parts and small subassemblies.
• **Future**—During World War II, this company subcontracted 55 percent of its work. Its subcontracting now is running less than during the war, but is expected to increase "substantially" in the future.
• **Address**—Ryan Aeronautical Co., Lindbergh Field, San Diego 12, Calif

SIKORSKY

• **Current Status**—Actively seeking subcontractors now.
• **Subcontract Items**—Fuselage sections, castings, tailpipes, housings, landing gear, transmissions, rotor heads and other items.
• **Future**—Sikorsky will be seeking subcontractors for the next year.
• **Address**—Sikorsky Aircraft division, United Aircraft Corp., Bridgeport 1, Conn

PRODUCTION BRIEFING

► **Meletron Corp.**, Los Angeles, has started research and development of pressure-actuated rocket engine switches under an Air Materiel Command contract. The work will be handled by a new division of the firm over a seven-months period.

► **Allen Aircraft Products, Inc.**, Ravenna, Ohio, designers and makers of custom aircraft parts, has appointed Bruce Charles Co., New York City, as sales representatives.

► **Lockheed Aircraft Service International**, New York International Airport, has added a new instrument repair and overhaul shop to its aircraft maintenance facilities. Since taking over the Idlewild operation from Willis-Rose Corp. 18 months ago, LASI has doubled its shop area and added about $450,000 in maintenance equipment.

► **Cessna Aircraft Co.**, Wichita raised Cessna 190 output June 1 to permit deliveries of about 33 percent more 190s during the latter part of 1951.

AEROTEC

M818 DIFFERENTIAL PRESSURE SWITCH

Specified **by Boeing Engineers for the Boeing B47**

Manufacturers like Boeing find Aerotec Pressure Switches built to exacting specifications for aircraft such as the B47 Stratojet, where performance qualifications are most demanding

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All M800 series Aerotec switches are available for use with nitric acid, liquid oxygen, water, alcohol, octane and hydraulic fluids.

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At a forthcoming session of the Swiss parliament, the government is expected to approve further assistance to the carrier by financing a special equipment rehabilitation fund. The company recognizes that in a few years it will be faced with the competitive consideration of replacing its aircraft with more advanced types such as turboprops or jets. It now operates 14 DC-3s, 4 DC-4s, 2 DC-2s and 4 Convairs. The government contribution to this special equipment rehabilitation fund is expected to range from at least 3 million to a top of about 5 million francs annually.

ACTA Members Post Fatality-Free Year

Nonsked air coach carrier members of the Air Coach Transport Assn. have not had a passenger fatality for 12 months. ACTA members credit reputable membership, following the organization of the group after the chaos and flood of new operators after World War II.

During the first six months of 1950, nonscheduled carriers transported 181,149 passengers a total of 300,367,284 passenger miles, according to Civil Aeronautics Board records.

While fatal accidents the past year have occurred in equipment owned by certain members of ACTA the planes were leased to other operators at time of crashes, and are thus not chargeable to ACTA member owners.

The nonsked coach association polices its members, holding them accountable to certain standards of maintenance and operation safety, as well as financial and rate codes.

Super Connie Backlog Grows

Trans World Airlines has ordered 10 Lockheed Super Constellations for delivery in Spring, 1952. The plane is designated L-1049, with 2900-hp. Wright CA-3350 engines.

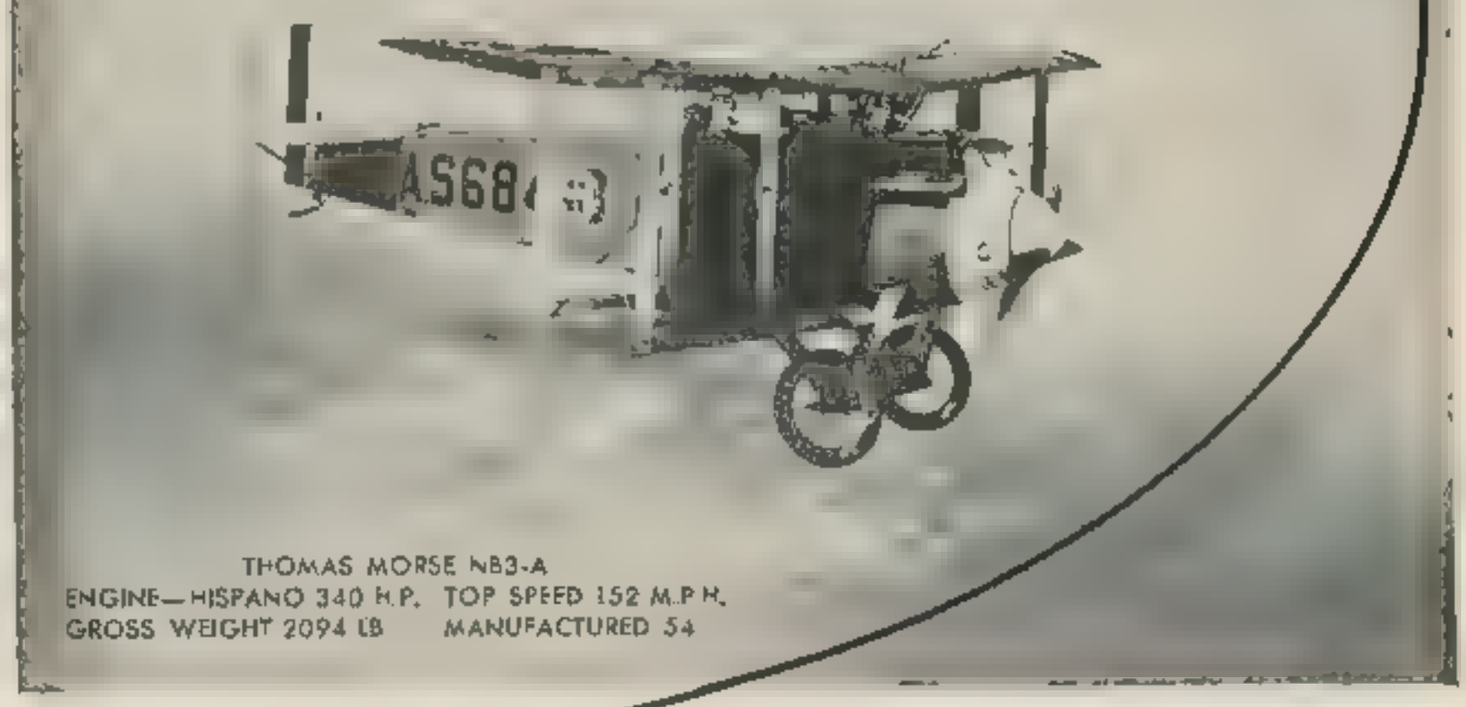
Other orders for the L-1049 now on Lockheed's backlog are: Eastern Air Lines 14; KLM Royal Dutch Airlines 9; Navy 11; Air Force 10, plus some special versions for electronics work. (The military and KLM Superconnies have the more powerful Wright compound engines).

TWA's Connies will seat 75 passengers and have a luxury lounge accommodating seven. Gross weight is 120,000 lbs.

TWA already has 55 regular Constellations. New orders for 10 Super Connies and 11 standard Connies will build the TWA fleet of 1952 to 76 Super- and standard Constellations.

AEROTEC

1920 (B.C.*)



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ENGINE—HISPANO 340 H.P. TOP SPEED 152 M.P.H.
GROSS WEIGHT 2094 LB MANUFACTURED 54

* BEFORE CONTROLS

Thirty years ago, no one worried about automatic controls, except possibly the designers of future "dream" planes. At 152 M.P.H., airplanes of the Thomas Morse type were well within the pilot reaction time for manual control of all phases of flight.

Fighter craft today present an entirely different picture. With 5 times the speed of the MB3-A and 20 times the horsepower, these aircraft operate far beyond the limits of human reaction. To supplement pilot control and protect life, automatic devices are specified as standard equipment in ever increasing numbers.

Outstanding in this field is the Aerotec Corporation . . . whose automatic controls are specified by every major military airframe manufacturer in the United States.

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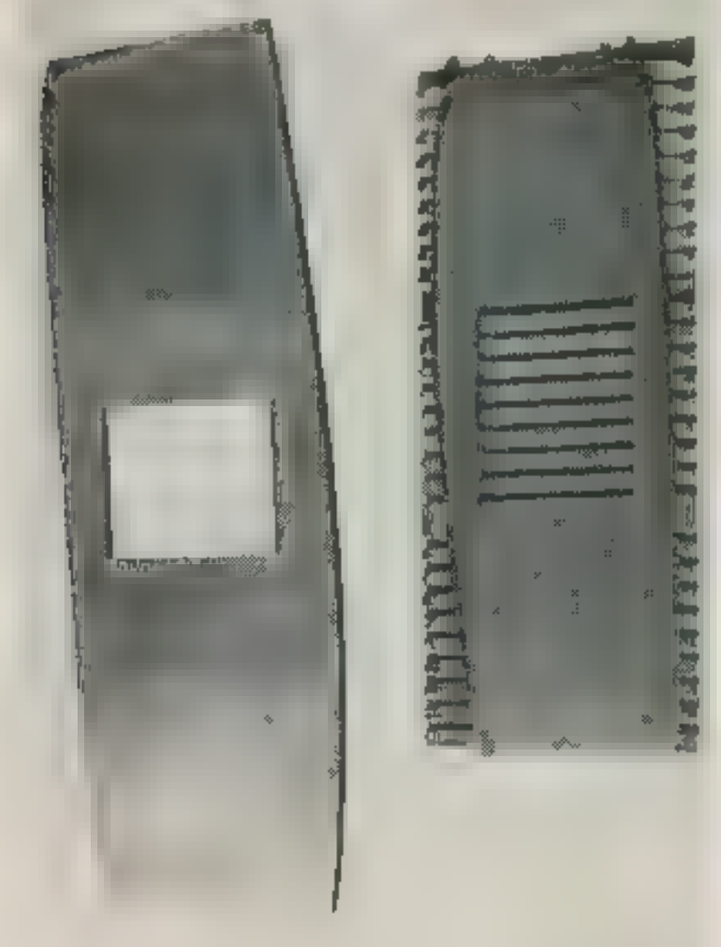
earn more revenue. And Redux has already led to savings in the cost of producing aircraft.

This can be seen most clearly from a comparison with the work involved in riveting 4 ft. by 12 ft. panels for the Dove. On such panels there are about eight "top hat" stringers, running parallel to the longer sides. Each would have two rows of riveting, for which it would be necessary to jig-drill the holes in skins and stringers, to countersink the holes in the skins, and then to put in each rivet individually. Bonding, on the other hand, may be carried out in a total time of about ½ hour after degreasing and chemical cleaning, and has the additional advantage that all the attachments are made in the one operation.



BRISTOL uses Redux bonding for fabrication of simple sandwich structure ribs. Surplus core on right-hand unit is bandsawed off.

►**Methods Compared**—Having given this description of metal adhesives at present available in Great Britain, let us compare them briefly with others

For many years engineers have used rivets to join sheet metals, but this method suffers from a number of disadvantages. Sometimes it is unsuitable because of the unsightly appearance of the rivet heads; in aircraft construction, their aerodynamic drag causes a loss in speed and range of the aircraft. In addition, it is now widely recognized in the British aircraft industry that Redux bonded structures are often stronger than similar riveted ones.

The brazing and soldering of light alloys, although sometimes practised, are hardly the simple and reliable processes which they are for joining steels; moreover, soldered joints have a poor resistance to corrosion. Spot welding

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type aileron and spoiler-aileron effectiveness. Free-roll tests showed that end plates also increased the damping in roll. In addition, end plates located below the wing chord line reduced the adverse yaw of flap-type ailerons.

►On Ionization and Luminescence in Flames (TM 1305)—by E. Saenger, P. Goercke, and I. Bredt

In measuring the reflection and absorption power of the exhaust jet of rockets by electrical means, the values found can be explained only by combustion gas ionization higher than that resulting from the usual equilibrium calculation. In larger rockets only a few tenths of a percent of the energy transfer can be explained by convection and thermal gas radiation. Presumably the source of the extraordinary additional heat that is present is the phenomenon of chemiluminescence (a glow produced by chemical action).

The authors suggest that their present hypothesis concerning the origin and the computing of ionization and luminescence in flames is probably not more than a preliminary attempt to give an explanation of these phenomena. At the time of the writing of the report (June 17, 1949) the authors lacked the possibility to conduct experimental investigations. They add that they submit their opinions, confirmed only by scanty observation, to scientific publicity in order to stimulate further observation and experiment.

►Method for Determining Pressure Drop of Monatomic Gases Flowing in Turbulent Motion Through Constant-Area Passages with Simultaneous Friction and Heat Addition (TN 2328)—by M. F. Valerino and R. B. Doyle.

This technical note presents charts to determine conveniently the pressure drop sustained by monatomic gases (with ratio of specific heat of 5/3). Limiting conditions are as described in the title; the gases are considered to be flowing at high subsonic speeds.

Charts are constructed to determine pressure drops due to the addition of heat at constant wall temperature. It is possible to determine pressure drops with good accuracy for other types of heat additions by using an effective wall temperature in connection with these charts. This effective wall temperature is given in terms of the passage dimensions, gas-flow conditions, and gas-temperature rise across the flow passage.

The purpose of this report was to supplement earlier methods for calculating pressure drops of gases flowing through heat exchangers. These earlier methods have simplifying assumptions over the adequate range of conditions normally encountered. But at the high air speeds and extremely high heat input rate considered in this report, those simplifying assumptions gave appreciable errors.

Furthermore, there has been considerable interest recently in the use of monatomic gases as the working fluid in certain aircraft closed cycles. One such cycle might be in connection with the nuclear energy powerplant.

The authors present examples to illustrate the use of the charts which are not the usual page size, but are large folded inserts in the back of the report

►Least Squares Curve Fitting Method With Applications to the Calculation of Stability Coefficients From Transient-Response Data (TN 2341)—by Marvin Shinbrot.

In this report the author considers the problem of calculating airplane stability from the known response of the aircraft to an arbitrary disturbance. He applies a classifical least-square fitting method in order to determine the coefficient of the linear differential equation which describes the airplane response.

The author shows that the method is applicable although cumbersome when the input is an arbitrary function of time. He then demonstrates certain inputs which lead to a simplification in the application of the method. Illustrative examples are given of applications, which also show the practicability of the method. —DAA

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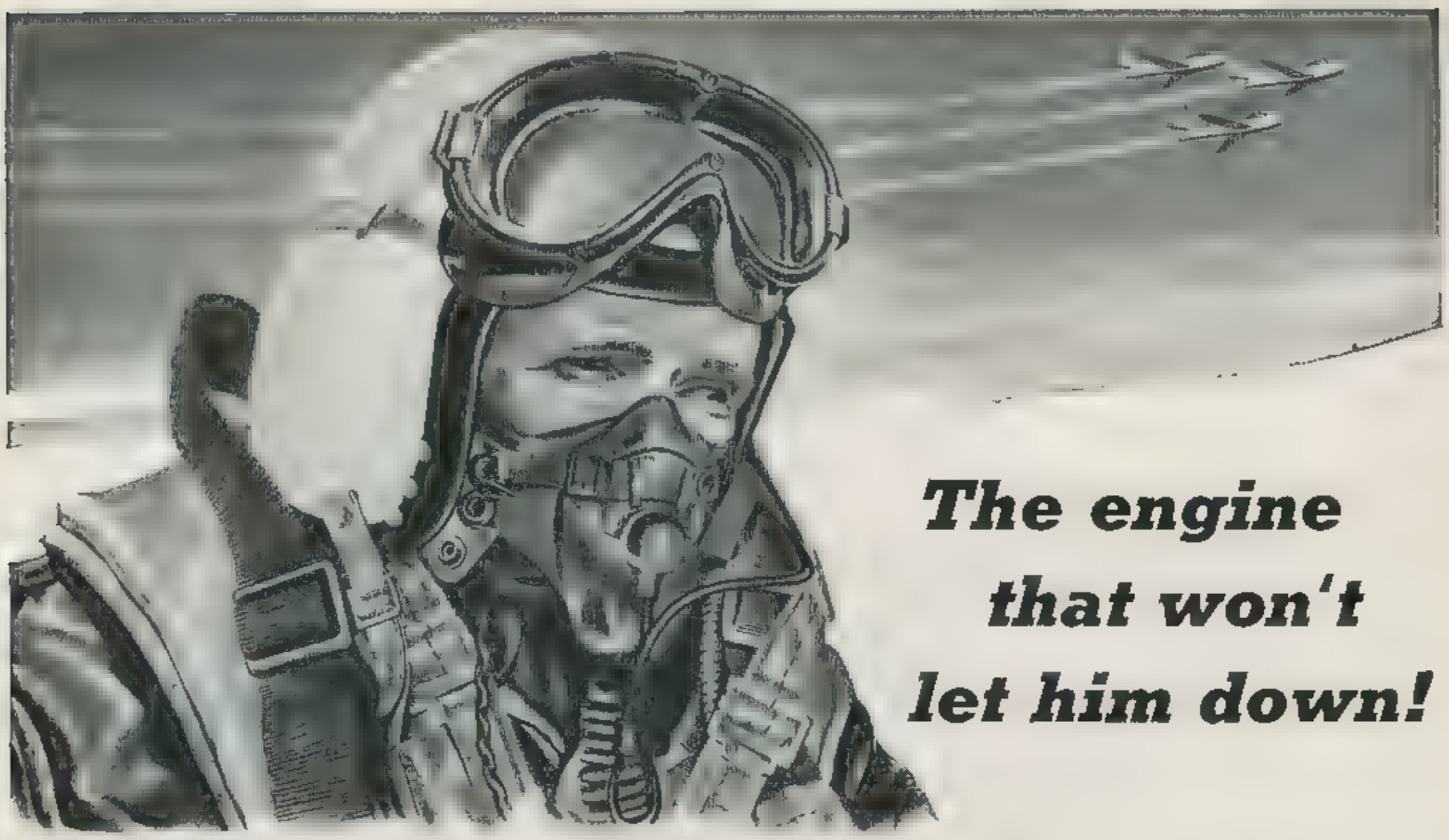

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A JET PILOT may carry a rabbit's foot on his key chain, but his luck is only as good as the engine that keeps him flying. Obviously, it's very vital to the pilot—and to the country whose uniform he wears—to keep that engine in perfect flying trim. Greer is concerned with an important part of this job. J-47 engines, for example, are carefully tested for accurate, dependable performance with Greer-built equipment even before they leave the General Electric factory (see illustration and description below).

Other parts of the jet—landing gear, flaps, brakes, automatic controls—all are tested under simulated flight conditions with Greer machines. There's no guesswork, no room for opinion, for Greer has replaced the human element with the absolute dependability of precision test equipment.

In addition to many standard machines for the testing and maintenance of all kinds of aircraft, Greer designs and builds special test equipment to meet out-of-ordinary requirements. A staff of expert *Creative Engineers** will be happy to meet with you at your convenience to discuss any problem in this field. No cost, no obligation.

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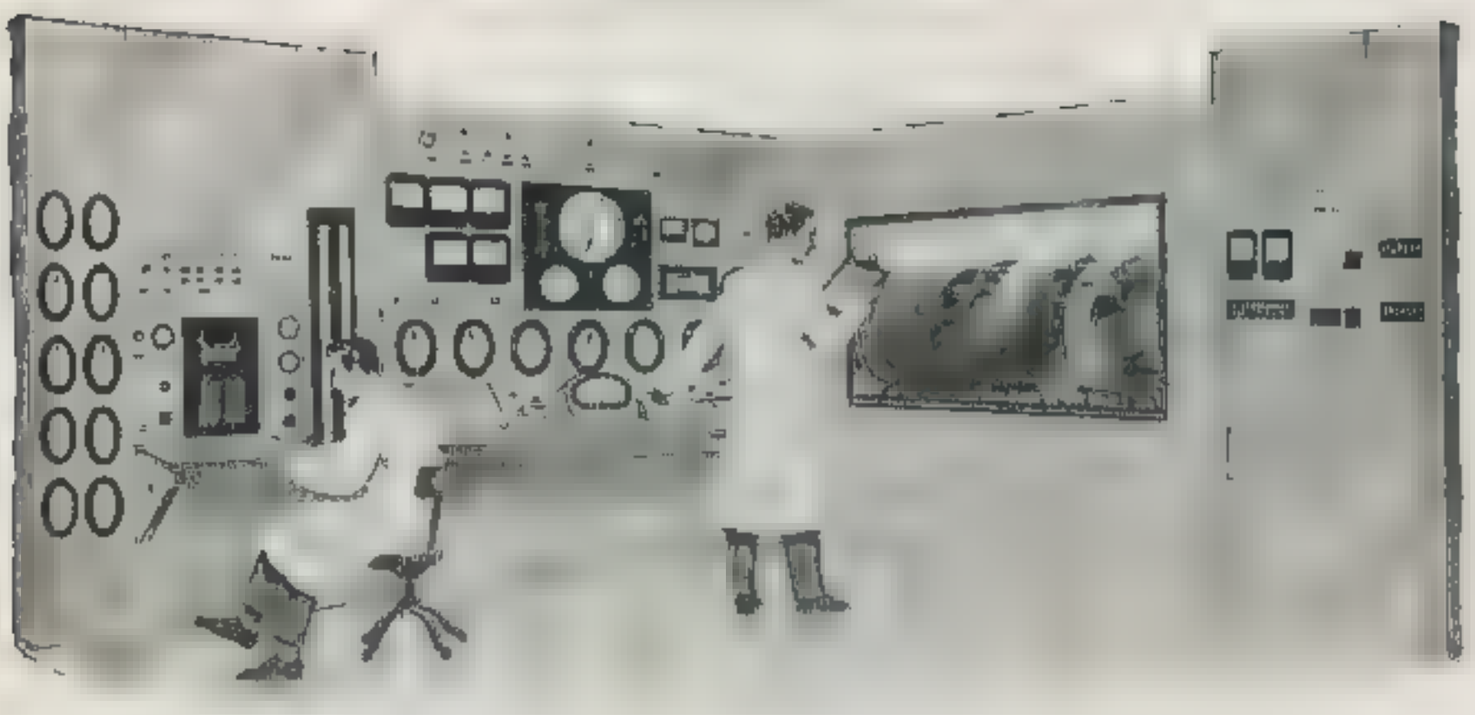

Greer's Instrumentation Control Panel, Model GEt, shown above tests completed turbo-jet engines under simulated flight. Custom-built to engine manufacturers' specifications.

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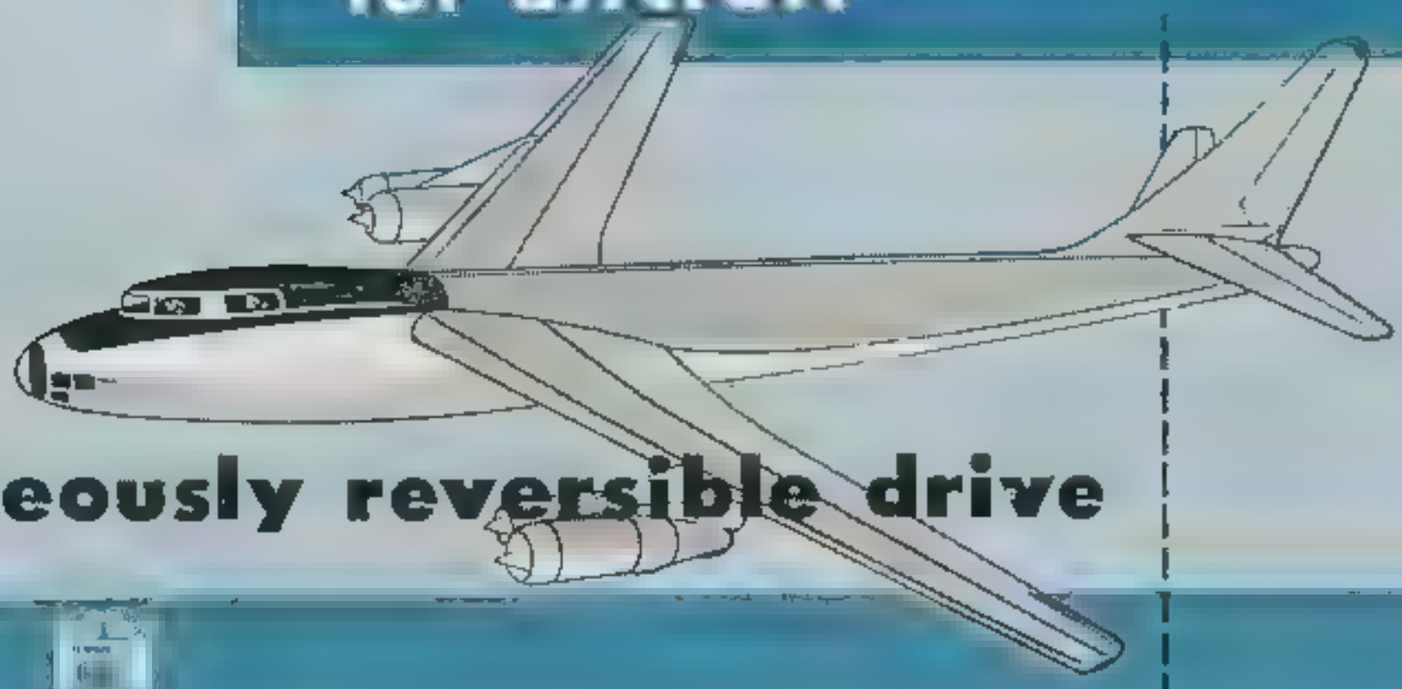
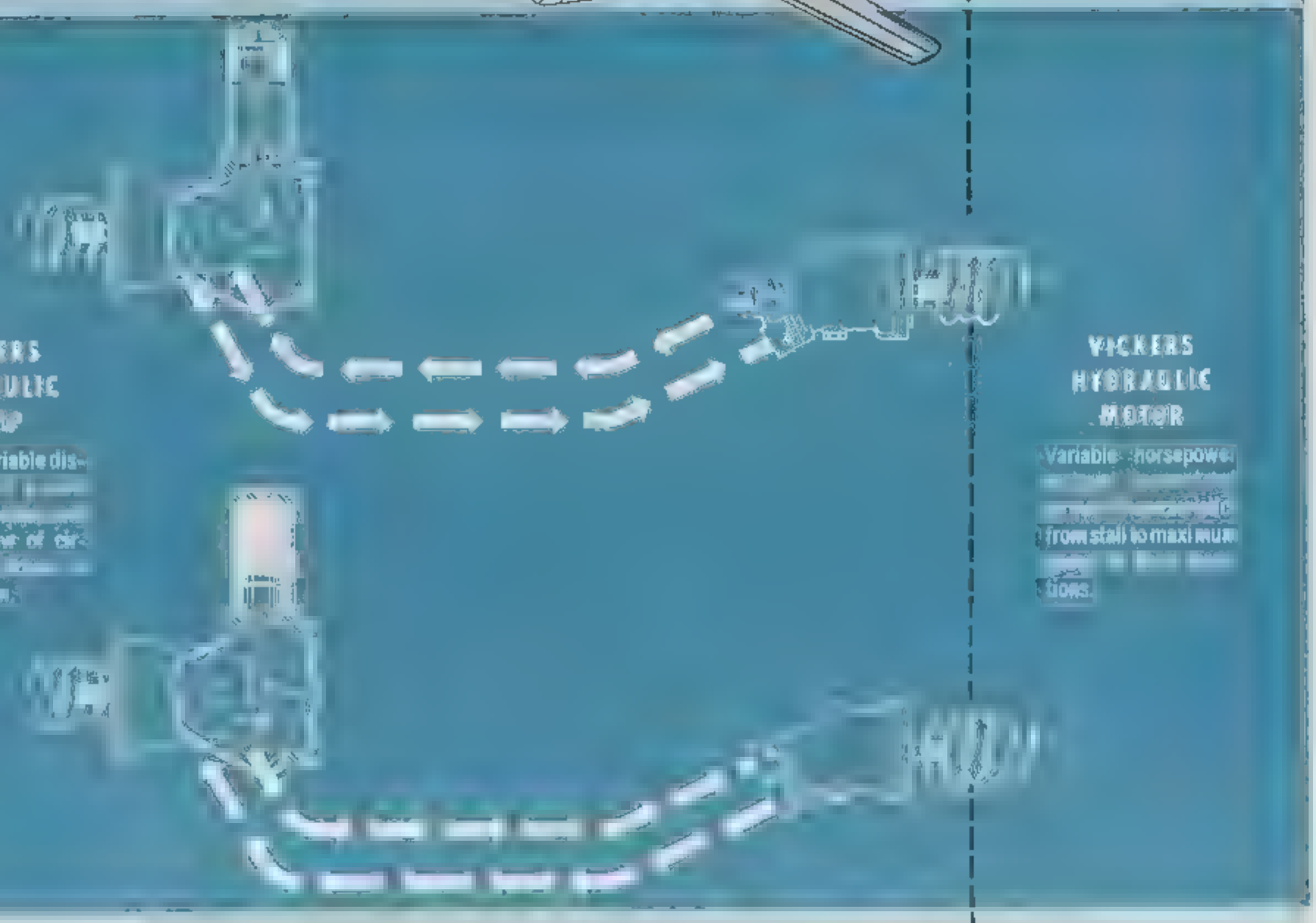
VICKERS hydraulic drives for aircraft



instantaneously reversible drive



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4535

Allison Turbo-Prop Engines Power 3 New Cargo Planes—

★ **The Lockheed XC-130**

★ **The Douglas R6D**

★ **The Lockheed R7O**

While testing continues with the first U.S. Turbine Transport—the Allison Turbo-Liner, built by Convair—military contracts have been awarded for the installation of Allison Turbo-Prop engines in three additional types of transport aircraft.

★ The Lockheed XC-130—a U.S.A.F. four-engine medium cargo plane—is *the first military transport ever designed originally around Turbo-Prop power.* It won U.S.A.F. design competition over five other makes and the selection of Allison engines represents another *first* for Allison in the development of turbine transports in this country.

★ The new Navy-sponsored R6D is a modified configuration of the world-famous Douglas DC6A Liftmaster.

★ The Navy R7O is the new turbine version of the Lockheed Super Constellation.

Allison Turbo-Prop engines were selected for all three aircraft because they develop more power with less than half the weight of present engines in this power class.

GM
GENERAL MOTORS

Allison

DIVISION OF GENERAL MOTORS, INDIANAPOLIS, INDIANA

Builders of J35 Axial, J33 Centrifugal Flow Turbo Jet Engines and T40 Turbo-Prop Engines

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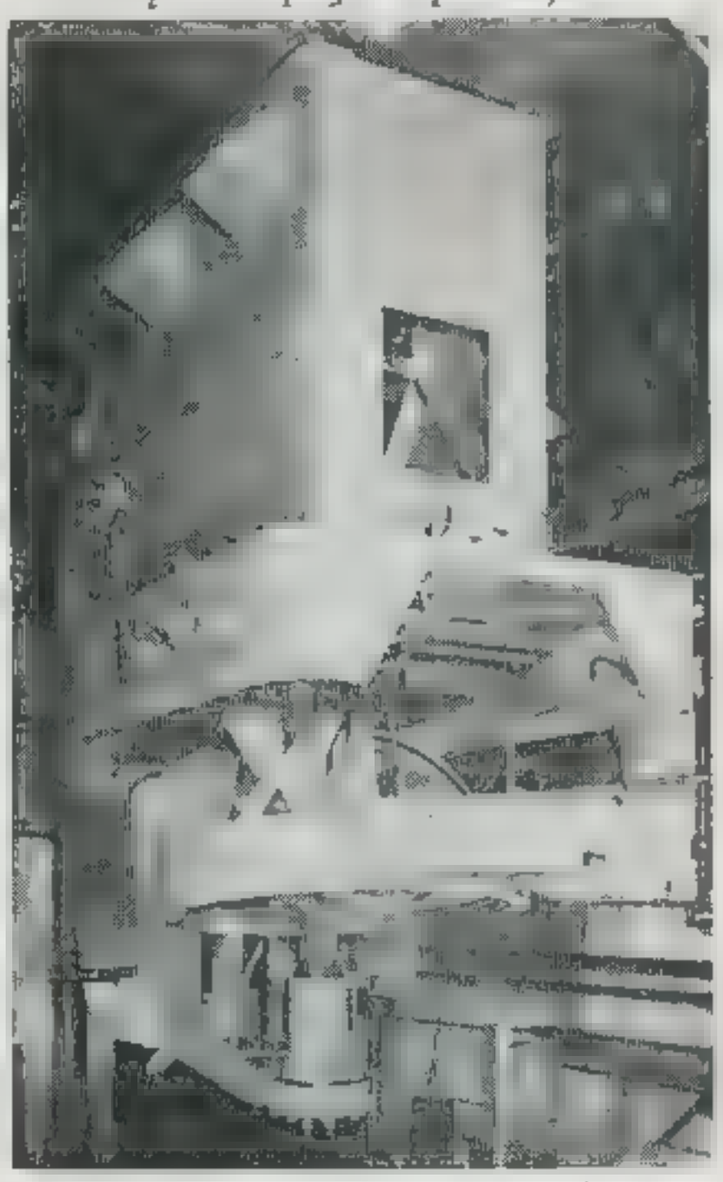
broaches that have built American industry into the largest productive complex in the world.

► **Refinements**—Aircraft and engine manufacturers who have not been able to get the ideal new machines for some of their operations, have refined existing machines to meet their special problems or are using several single-operation machines to do the work which admittedly one new machine with several operations could do more efficiently.

An example of a refinement of a conventional machine is a special three-head adjustable spindle circular type drilling unit which the New Britain Machine Co. has built to the order of Pratt & Whitney Aircraft division. The tool is designed to handle the large variety of drilling patterns required in the fabrication of jet engines, spread over diameters up to 48-in. and in some instances involving as many as 196 holes. The machine will drill, ream and countersink with one setup.

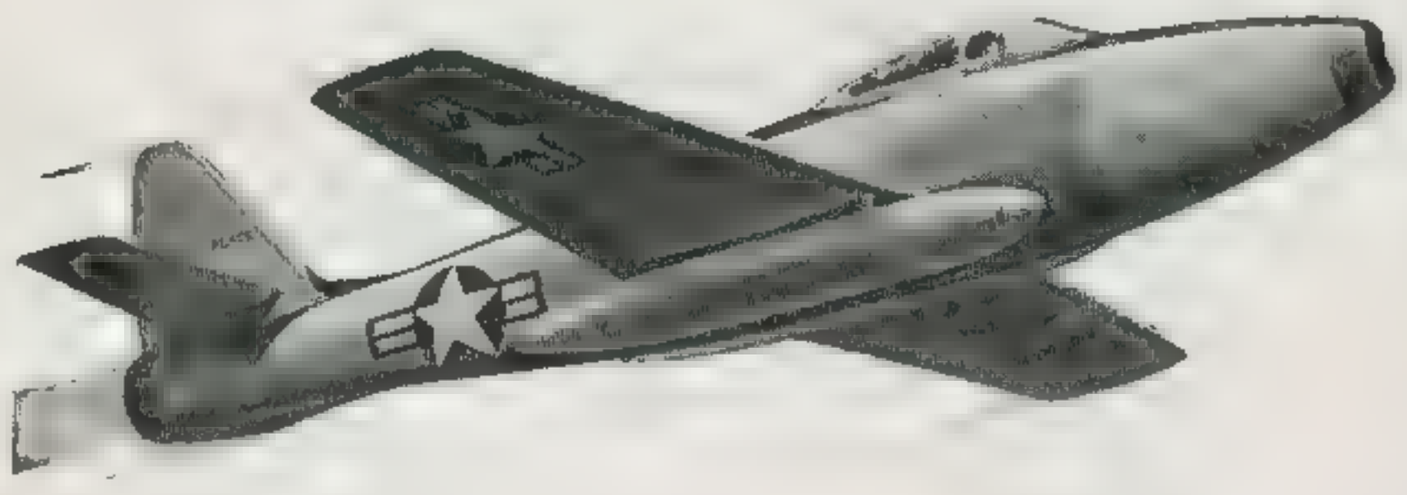
► **Bullard Modifications**—Two interesting special applications of a standard boring mill, a Bullard Cut Master vertical turret lathe, have been made by Ryan Aeronautical Co. One involves a raised bed, 24-in. higher than the standard vertical Bullard, for specialized machining on metal sections up to 84-in. tall. The other uses a Turchan hydraulic duplicator attachment which converts the machine into an automatic production tool. A tracer point follows the outline of a pattern and actuates

(*Text continued on p. 200, picture page on p. 199*)



LAPOINTE universal fixture on the company's ten-ton 54-in. SRV broaching machine is used for mass volume output of stator ring segments for General Electric turbojet engines.

This team is making records!



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An enviable record in Korean combat is being achieved by Republic Aviation Corporation's F-84E jet fighter. Pastushin Aviation Corporation is proud that its 230-gallon jettisonable fuel tank, designed and built by Pastushin, is helping to increase range and combat effectiveness of one of the U. S. Air Force's greatest fighter planes.

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Serving the Heart of America

December 27, 1950

Surface Combustion Corporation
2375 Dorr Street
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Gentlemen:

At the time we placed our Convair aircraft in service last Spring, we recognized the problem of inadequate cockpit heat and the need for heating the cabins on the ground; therefore, a decision was made to install "Jan Trols", as we considered such an installation to be the most logical solution to our problem.

Since completing the installations in our fleet of Convairs, we have operated in temperatures far below zero, both on the ground and in the air, and have found the Janitrols equal to all occasions. Our Convair cockpits are warm and cabins may be heated to a comfortable degree before boarding passengers, regardless of outside air temperatures.

In fact, the Janitrols can serve a third purpose in that there is sufficient heat available for both the cabin and cockpit, making it possible to use all heat from the normal source for anti-icing, should such action be desirable.

Yours very truly,

MID-CONTINENT AIRLINES, INC.

C. H. CALHOUN
Vice President -
Engineering and Maintenance

CHC:mb

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COMBUSTION AIR BLOWER
VENT AIR BLOWER
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CABIN HEAT VENT
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DEFROSTER DUCT DUMP VALVE CONTROL
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"... and thanks from the pilots."

Re Janitrol heating equipment on Mid-Continent Convairs, Captain L. Homer Mouden wrote in his log book: "It is really a comfort and a joy to have heat in the cockpit. This is the best arrangement of our CV-240 fleet . . . and thanks from the pilots." Thanks to you, Mid-Continent, for a heart-warming testimonial.

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strumentation overrun, $17,000 000, Cl. 01B, over $250,000.

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Douglas Aircraft Co., Inc., Santa Monica, complete mobile training units, Cl. 01D, over $250,000

Eastman Kodak Co., Rochester, photographic paper, Cl. 10C, 12 items, $226,262.

Eclipse-Pioneer div., Bendix Aviation Corp., Teterboro, N. J., regulators, generator, Cl. 03C, over $250,000; regulators, Cl. 03C over $250,000; inverters, Cl. 03D, over $250 000; fuel pressure indicators type C-34, Cl. 05D, 2,308 ea., $146,242; indicator manifold pressure, Cl. 05D, 213 ea., $33,573, starter assemblies, Cl. 03-C3, 673 ea., $104,736, additional funds, Cl. 16A, over $250,000 cylinder and regulator assembly, Cl 13, 58 ea., $30,576; tester, autosyn instrument field, Cl. 17C, 46 ea., tester, magnesyn instrument field, 58 ea., $29,591; 200 AMP generators, Cl. 03C, over $250,000.

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Electric Storage Battery Co., Cleveland, type K-1 batteries, Cl. 03J, 533 ea., $30,434.

Electrolux Corp., Greenwich, Conn., dynamotors DY-21/ARC-3, Cl. 16A, 813 ea., $188,728

Embry-Riddle Co., Inc., Miami, div. of Embry Riddle School of International Aviation, furnishing of ... facilities & training for 77 AF military personnel in airplane maintenance for 15 weeks, $38,066.

H. G. Ergstrom Engineering, Inc, Chicago, snap, parachute harness, Cl. 13C, 146,433 ea., $33,931.

Fairchild Camera & Instrument Corp., Jamaica, echo box, Cl. 16J 688 ea., $231,341; indexing camera, Cl. 10A 1 ea., $51,251; bubble chambers for type A 10A, 1 ea., sextant, Cl. 05A, $46,000; components for radio compass AN/ARN-6, Cl. 16A, over $250,000.

Fairchild Eng. & Airplane Corp., Hagerstown, Md., machinery & equipment for production of aircraft & construction of AF plant #11, an office building, factory addition, hangar extension, and pave ... ways on Government leased premises over $250,000

Fletcher Aviation Corp., Pasadena, aluminum flex. tanks Cl. 03L, over $250 000

Flexible Tubing Corp., Guilford, Conn ducts and adapters, Cl. 19E, 1,870 ea., $39,493

Fisher Research Lab., Inc., Palo Alto, Calif., radio sets AN/URC-4, Cl. 16M, 200 ea., $160,850

Flightex Fabrics, Inc., New York, cloth, Cl. 21, 15,000 yds. $36,049.

Frampton Electrical Equipment Co., Dayton, automatic volume control C-301/ARA-8A, Cl. 16A, 423 ea., $27,251.

Gar-Wood Industries, Inc., Wayne, Mich., S/p for truck tractors, Cl. 19C, 65 items, $130,290.

General Electric Co., Schenectady, turbojet aircraft engines, over $250,000; tester artificial computer, Cl. 17C, 67 ea., $32,492;

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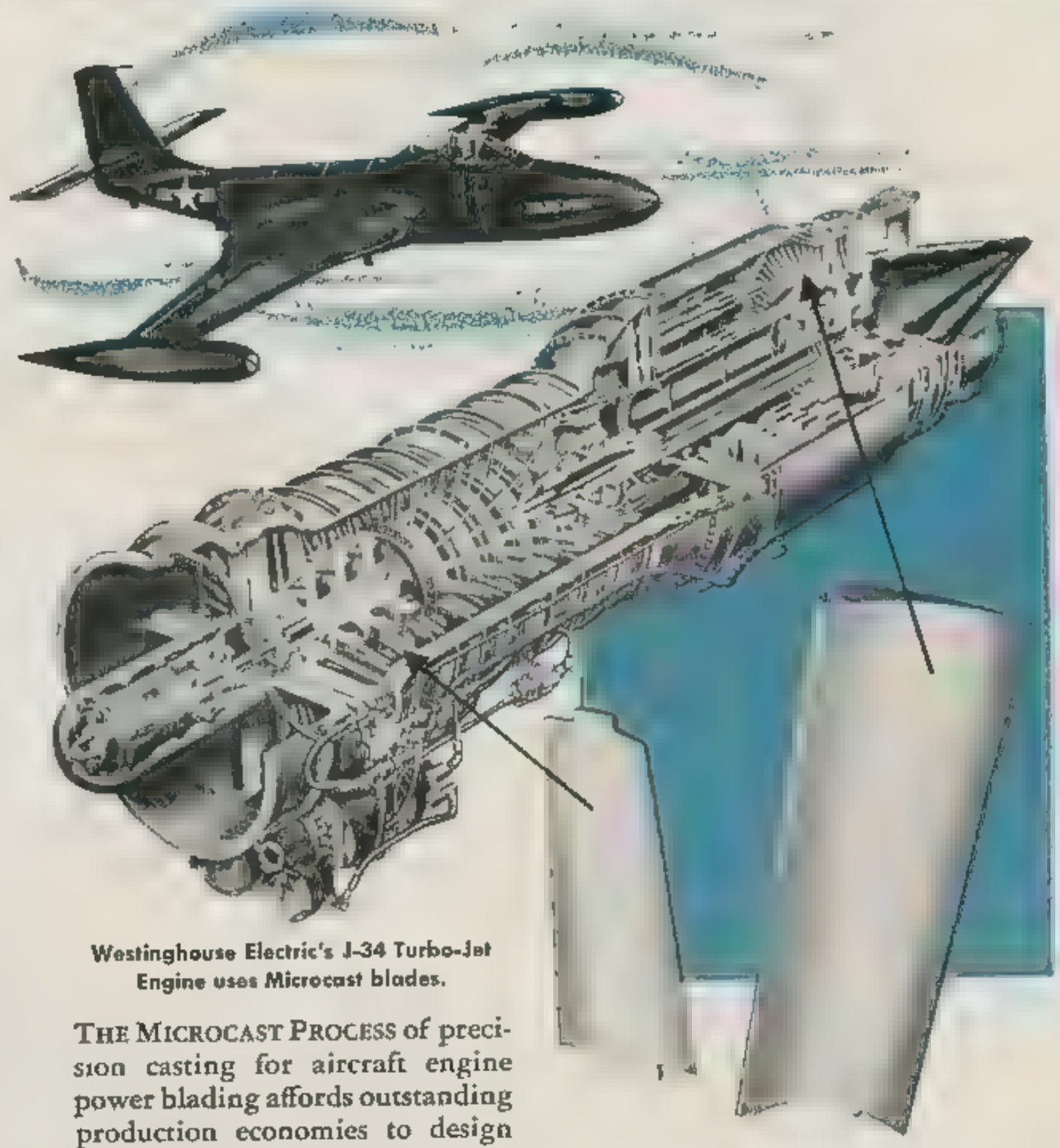

Westinghouse Electric's J-34 Turbo-Jet Engine uses Microcast blades.

THE MICROCAST PROCESS of precision casting for aircraft engine power blading affords outstanding production economies to design engineers working on those remarkable new power systems. And the reasons for these savings over conventional methods are both unique and exclusive with the process. With Microcastings, you take advantage of the simplicity and inexpensiveness of tooling, avoid tool breakage. You effect substantial savings in expensive, critical alloys. Likewise, you effect man power savings and free equipment and floor space for other necessary operations. Perhaps the Microcast Process can solve some of your production problems; better investigate today!

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on the precision process originated by Austenal Laboratories, Inc., for the production of castings of intricate design using the high melting point alloys where surface smoothness and dimensional uniformity are mandatory, requiring little or no machining. Write for booklet and information.

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water drop process) the nucleus breaks into two separate fragments propelled in opposite directions. There is a net decrease of the mass of this system (unlike what happens in fragmentation of the waterdrop), this mass difference appears in the form of energy.

The two fragments which were formed by fission have atomic numbers and mass numbers which when totaled give the mass number and atomic number of the original single nucleus. But the two fragments' nuclei are actually unstable, they have a combination of neutrons and protons which cannot stay in equilibrium

So in order to maintain equilibrium, the atomic structure must rearrange itself. It can do this by ejecting all the surplus neutrons, by converting the neutrons into protons by giving off electrons, or by some combination of these two possibilities.

► **Unequal Products**—With uranium, the fission products are not of equal mass; instead, they are of mass numbers about 140 and 90. Only a few neutrons are emitted; the remainder of the process is the emission of electrons (radioactive decay) until stable nuclei are formed

Using current data for binding energies, calculations show that this particular rearrangement gives a final total mass considerably less than the original mass of uranium, and that tremendous amounts of energy are released.

Most of this fission energy appears in the kinetic energy of the fission fragments the two unstable nuclei mentioned before These particles, following their formation, have speeds around 22 million mph The kinetic energy due to this high speed produces, by collisions, a temperature rise in the reactor.

In the meantime, the neutrons which were liberated have been tearing into other nuclei, disrupting and forcing structural changes, with the further release of fission particles and neutrons. And this brings us to the concept of the chain reaction.

► **Definition**—Chain reaction is a descriptive term which pretty much defines the process It means simply that one fission process releases some free neutrons which initiate other fission processes And these in turn trigger more fission processes. The whole chain reaction takes only a short time, if allowed to proceed unchecked.

As one example of the speed of reaction and the amount of energy liberated, consider doubling the nuclei which undergo fission in each step or generation In eighty generations, there would be 10 to the 24th power neutrons in the system, which is enough to cause the fission of every uranium nucleus in a little over half a pound of uranium. The energy released would be 6.7 mil-

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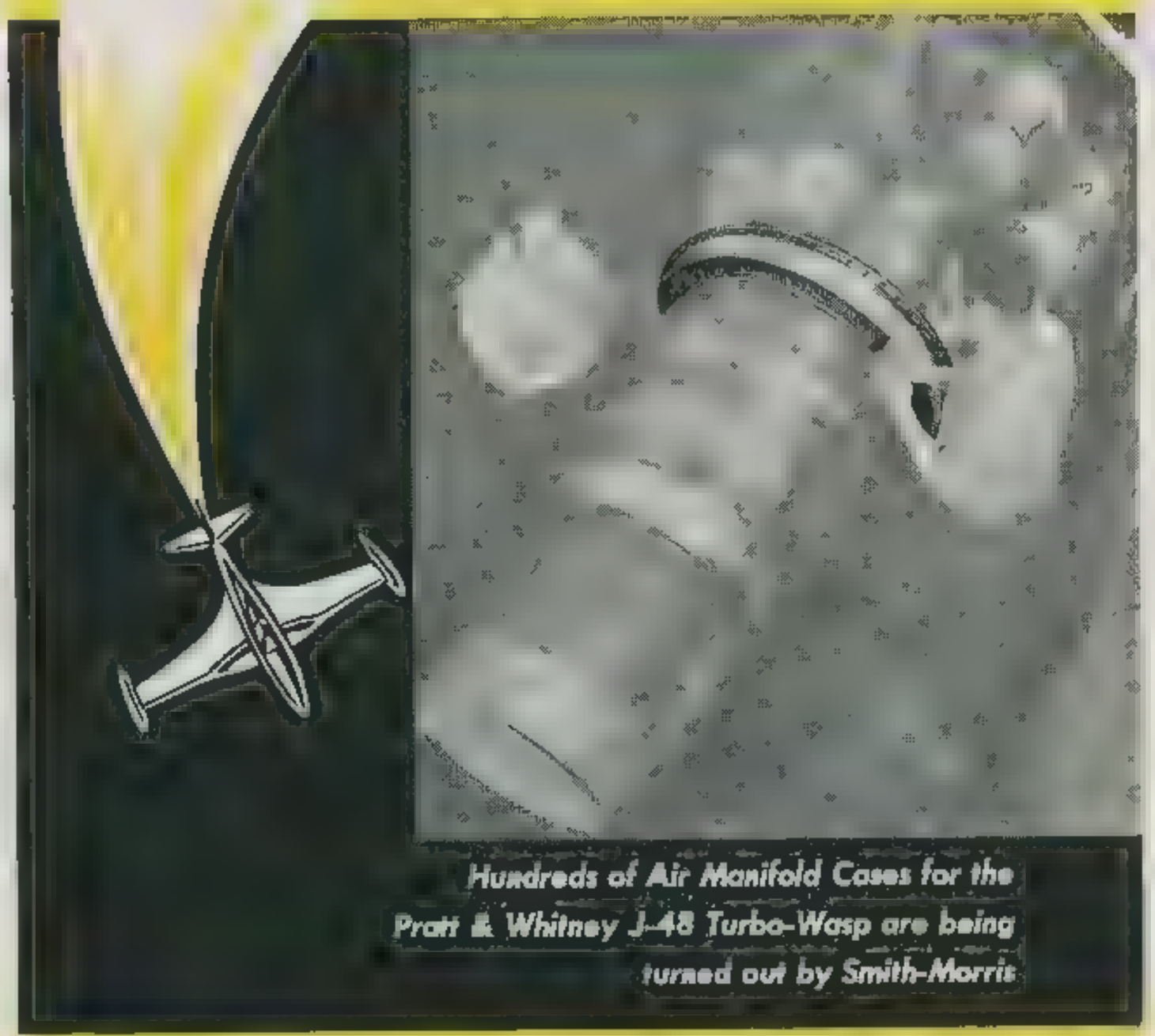

Hundreds of Air Manifold Cases for the Pratt & Whitney J-48 Turbo-Wasp are being turned out by Smith-Morris

Complete production of high-temperature alloy parts like these at war speed calls for side-by-side positioning in the Smith-Morris plant of die-foundry equipment, pneumatic Cecostamps, and ultra-modern welding equipment . . . Maybe we can develop for you "an unusual way to make an unusual part." That's what we're proud of doing at Smith-Morris—that, and meeting the strict aircraft standards of precision and quality. What can we do for you?

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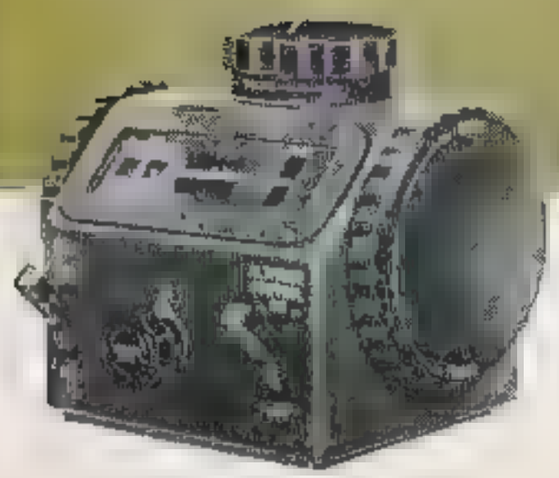

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► For widely diversified aircraft the Sperry Gyropilot* is providing consistently smooth, precise automatic flight control under all flight conditions and is making possible automatic approaches through low ceilings in rough air.

► The flexibility in applying this Gyropilot to all types of aircraft is the result of 10 years' experience in combining precise reference systems with electronic rate circuit techniques and high response servos which accommodate all control situations from lighter-than-air ships to guided missiles.

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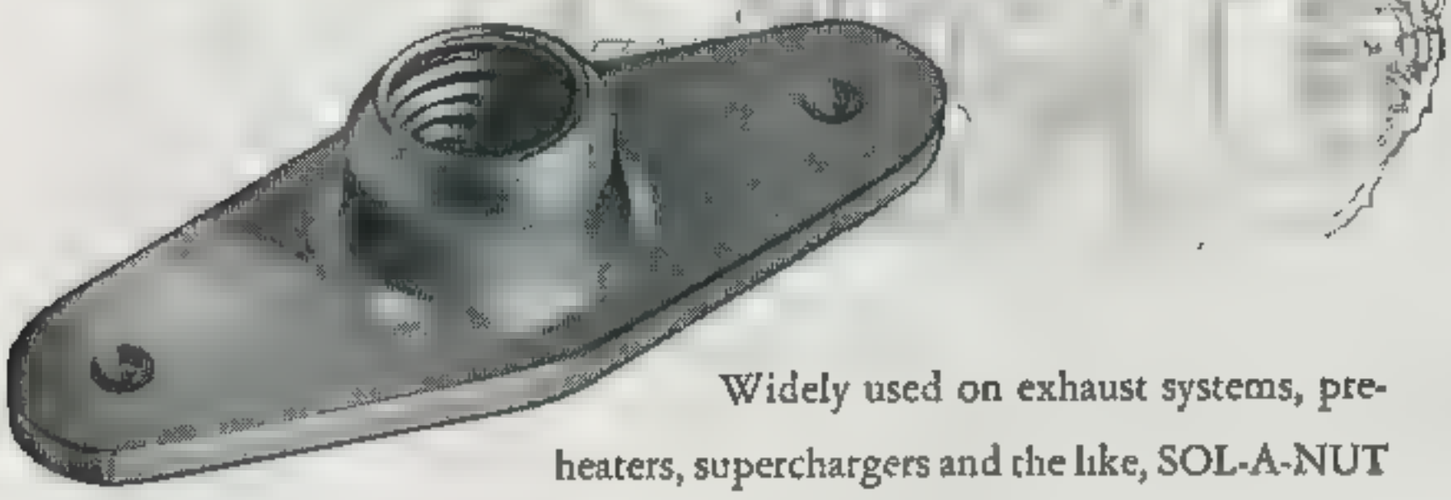

Widely used on exhaust systems, preheaters, superchargers and the like, SOL-A-NUT has proven its stamina on jet engines, too. Sturdy, one-piece stainless steel construction assures long life . . . no corrosion if nicked or scratched. Reasonable in cost, quick and easy to spot-weld, SOL-A-NUT cuts assembly time in both manufacturing and maintenance operations.

Monadnock, with a wealth of fastening experience, also has reliable development and production facilities available to manufacturers of quality products.

MONADNOCK MILLS San Leandro California
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cies and was actively engaged in correcting them.

Here & There

NWA, pioneer experimenter with Packard's resistance spark plug cable, the so-called "wireless wire," said it had equipped an R-4360 engine with it to check analyzer operation.

Result was a definite effect on the pattern, but the analyzer remained perfectly useable.

NWA is now considering the effects of cold weather on the cable. Airlines indicating they would test the cable were National, PanAm and Trans Canada.

Free-wire high tension leads covered with Titeflex for low tension systems on R-3350BD engines using 5mm cable are giving excellent results at EAL. And they are cheap.

If distributor insulator bowls are removed from the Scintilla D4RN-2 magneto, flashover altitude (at 10,000 v.) will drop from 31,000 ft. to 22,000 ft., according to the maker. Their removal is not recommended.

Scintilla is working on, and believes it has the answer to, the problem of making a mag breaker point which can be changed in the field without affecting the dwell point.

Answer may be an elongated fastening screw hole to permit holding close dimensions between center line of a fastening screw and center line of cam follower.

Champion's Burns Maus, himself the spark plug of the conference, kept the meetings moving along with split-second timing. Many comments were overheard that this was the best of seven excellent conferences conducted by Champion

Bendix Gets RAAF Equipment Contract

(McGraw-Hill World News)

Melbourne, Australia—Largest order of its kind yet placed by the Royal Australian Air Force, reportedly amounting to several million dollars, has gone to Bendix Aviation Corp. of U.S.A and its Australian partners.

The order is for American-patented aircraft electrical equipment and was negotiated by Bendix general manager C. T. Zaoral.

Bendix recently became associated with the Australian firm of Tecnico and a large part of the order will be supplied by the new firm of Bendix-Tecnico Pty Ltd. from its factory at Marrickville Sydney.

Further orders with American companies are expected to be placed by RAAF.

open or shorted secondary circuits.

Patterns have also been successfully established for low tension and resistor cable ignition systems, and combustion cabin heaters.

Wheeler emphasized the value of the vibration pick-up feature of the instrument. This feature enables the operator to determine valve clearances under actual, dynamic conditions, rather than under static, cold clearance. It is this actual operating clearance that is of primary importance as far as satisfactory valve and engine performance is concerned, Wheeler stressed.

New features of the Sperry unit are:

• **Crankshaft timing maker**—Accurate to less than one crankshaft degree, according to Sperry. But further redesign and service testing may be necessary to increase its reliability. The device consists of a variable reluctance pick-up and a small vane attached to and rotating with the tailshaft.

Sperry felt that such a device was necessary because synchronizing generators driven off the accessory section are subject to errors of initial accuracy of the gear train, tolerances of shafting and bearings, wear, and windup caused by torsional vibration. Moreover, generally speaking, large aircraft engines are the only reciprocating engines having no index for determining dynamic or static crankshaft position.

• **Torque rate pick-up**—Adapted from a modified Sperry vibration pick-up, this sensing element feels the rate of change in engine torque and responds electrically. Installation must be close to the torque cylinder where it adequately registers even very high frequency transient pressures. Unit is now undergoing service evaluation with promising results in several aircraft, Sperry says.

► **Portable Analyzer**—Sperry plunged deeper into the simmering analyzer competition with a new portable instrument. Scintilla countered this invasion of its bailiwick by offering its analyzer as an airborne installation as well as a portable unit, striking at Sperry's stronghold.

Sperry listed these improvements for its portable unit:

• **Timing can be performed** at the analyzer because an electrical phase shift at the unit was substituted for a mechanical shift of the stator of the synchronizing generator. This permits installation of the synchronizing generator without regard to phasing. An ignition pulse pick-up is provided for small aircraft on which sync generators are not installed

• **Checking of engines** with any number of cylinders, from one up, may be done with the Sperry instrument simply by installing the dial plate corresponding to the engine's firing order and number of cylinders. It also permits checking the number of crankshaft degrees between any two engine events.

• **Testing facilities** without external relays have been provided for high or low tension ignition systems on the R-4360

• **Frequency variation** of supply line to the analyzer is permissible from 50 to 500 cps.

• **Analyzer may be tilted** by adjustable legs; front cover serves as a writing table when open.

Price of the unit has been reduced approximately $1,000 to around $2,200 This is still more than double the cost of the Scintilla portable analyzer.

(Continued on p. 61)

Amazing Aircraft Finish

Alvex

Sky-high in Quality!

CHAMBERLAIN AVIATION, INC.
AKRON 9, OHIO

Just a small flow-detector tab below the leading edge, yet this vane gives any airplane better landing, flight, and maneuvering characteristics, regardless of size or weight. It's part of the stall sensing unit of the Safe Flight pre-stall instrumentation system.

Regardless of load, speed, acceleration, or flap position, this detector gives infallible pre-stall warning at a precisely determined margin. It actuates the Safe Flight control shaking device which perfectly simulates natural buffeting so difficult to achieve in modern, rigid, high-speed aircraft. Equally important, it helps the pilot obtain maximum performance by supplementing his perceptive skill in the region of $C_{L(max)}$.

Why not let our engineering staff discuss what stall instrumentation can do to improve your designs? Your inquiry will be welcomed.

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TRANSPORT Convair 240
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Chance Vought F7U series
Douglas AD-3W series, F3D series
Grumman (all models)
McDonnell F2H series
Northrop F89, YRB-49 series

SAFE FLIGHT INSTRUMENT CORPORATION
White Plains, New York
PIONEERS IN STALL INSTRUMENTATION

comes about varies between wide limits. It may be so rapid as to make the time when a new model should be started agree exactly with the time of greatest apparent success of the current model.

It is always anticipated that an aircraft project will be a success and plans are laid accordingly. The road to eventual justification may be rough and there may be many times when it takes courage and vision to stick it out and not to give up too soon. On the other hand, it may in fact prove to be a mistaken venture: perhaps the sights set by the specification were too high and the attempt to meet them has produced a design that is strained and not easy, one that can never be truly successful because it is so complicated; perhaps the need which seemed so apparent at the beginning has faded away under changed conditions. The difficulty here, in view of normal human stubbornness and pride, is to accept the mistake as a mistake, write it off, take a deep breath, and put down a fresh sheet of paper.

►**Military Angle**—This problem of succession, when applied to military aircraft, has some special elements that are worth noting. The losses that a given air force will sustain in battle against the enemy depend upon its quality. If aircraft are not replaced from time to time with newer models, their attrition rate will be higher in the event of war. Replacements in wartime will then have to be more numerous, leaving aside the difficulty of getting them in time, and their total cost will be higher. This added cost will tend to offset the added cost that would have been incurred if more modern aircraft had been secured in the first place.

The penalty of allowing an air force to slip behind the state of the art through failure to renew is so great that a drastic policy of scrapping existing military aircraft and replacing with new ones as soon as they can be made available will pay in the long run.

In other words, as soon as today's bomber or fighter has been placed in production, tomorrow's should be started on the drawing board. In fact, since not all designs are successful, more than one should be started.

The manufacturer who rests on his oars too long is overwhelmed by competition; the country that rests on its oars too long is overwhelmed by the enemy. There has to be a very definitely established policy of cyclical progression to maintain a place in this world of constant change.

In times past it may have been enough to rely on having new aircraft at all times ready for production. The pace of modern warfare is putting an increasing bonus on air fleets-in-being; the new aircraft have to be introduced into production and the old ones retired according to a prescribed plan designed to maintain a high level of quality. . . .

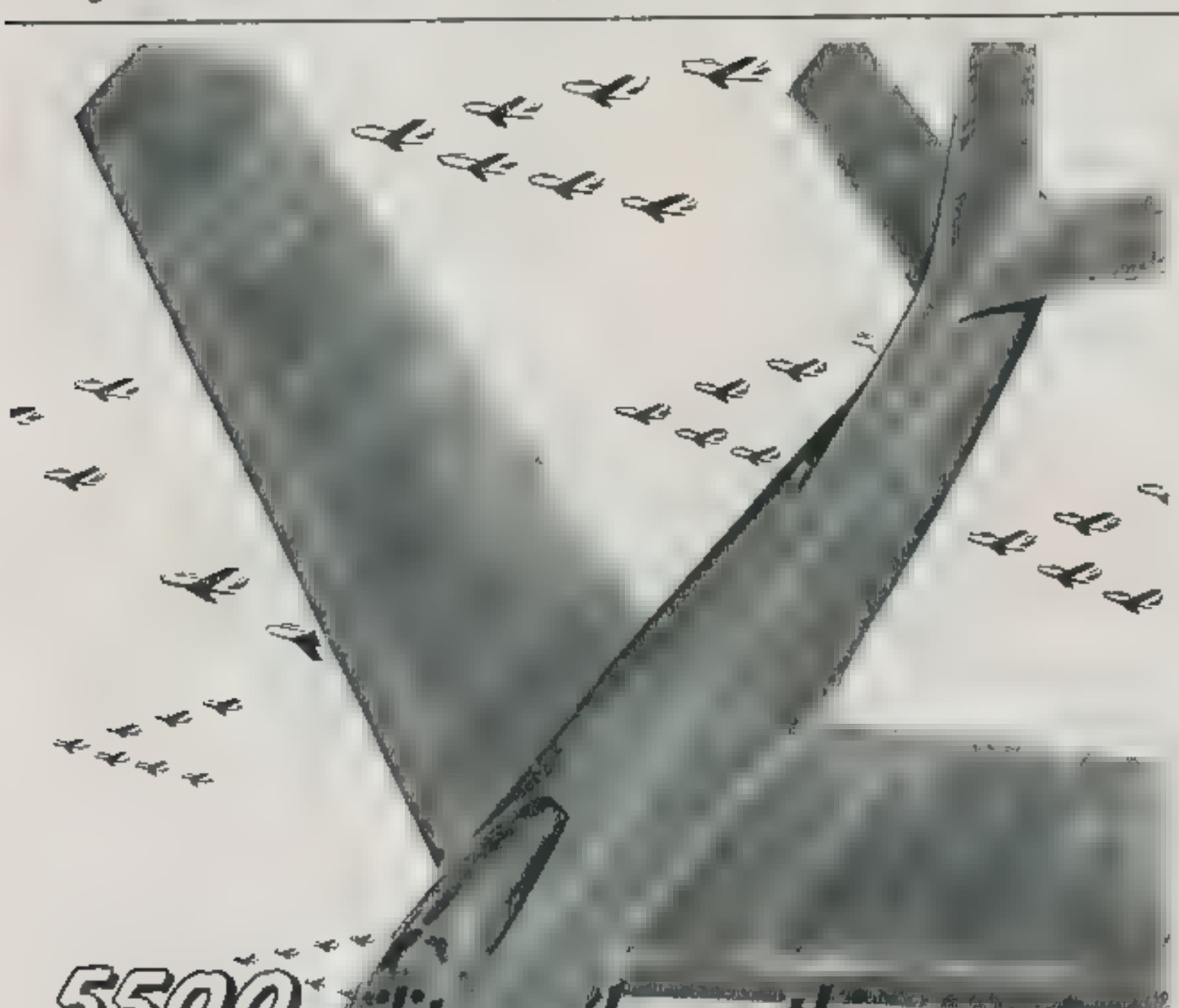
8. Adaptiveness

Up to this point everything that has been said has given the impression that the production of a successful aircraft is merely a question of following certain rules. Starting with certain ingredients and mixing them in a certain way we get an assured result.

Looking back over the example of success and failure in the author's intimate knowledge, it is all too apparent that this is far from being the whole story. Things happen which might have been foreseen but were not; things happen that could not possibly have been foreseen. The total of these unplanned-for happenings often turns out to be the deciding factor.

►**Deficiencies in Planning**—This is an age of planning. It has come about because the very complexity of modern society, government, and technology requires that a great deal of attention be given to planning if things are to be kept under any semblance of control at all. At the same time, some of these problems are so intricate that it is absolutely impossible, at least within the time available, to establish all the variables with accuracy.

The planning must therefore be im-



5500 military planes this year . . .

means millions of welds—
over 90% of them are being
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Developed and pioneered by Sciaky, the Three-Phase Principle is now the accepted method of resistance welding as was the Sciaky Storage-of-Energy Principle during World War II. Because of its versatility the Three-Phase Principle has now made Sciaky resistance welding a practical answer to joining requirements for many ferrous and non-ferrous metals in a wide variety of industries. It can work for you . . . and Sciaky engineers will show you how. Write for bulletins describing the Three-Phase Machines.

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SILASTIC* can be used to fry an egg or keep aircraft flying under icing conditions

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Certain Silastic stocks are also excellent electrical insulating materials. Dielectric strength and dielectric constant are practically unchanged by 4 months of accelerated aging at 175°C. (347°F.). High heat conductivity enables Silastic insulated coils to operate under the same load at temperatures as much as 50% below the temperatures of identical coils impregnated with electrical insulating varnishes.

And remember, Silastic also repels water and ice, shows excellent resistance to oxidation, outdoor weathering, ozone and to a variety of hot oils and chemicals. That's why Silastic is so challenging as a heating pad; so indispensible as a gasketing, sealing and electrical insulating material.

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for North American to accelerate their production enormously."

Note that the time is still six months and that the IF is a very big one. Production one or two months after the outbreak of war is likely to be not much more than it will be on that day.

The above is not said in any way to belittle the effort now being made to have more plants, more tooling, more material, and more men ready. It is only a warning that on the day we have to go to war, our theoretical production capacity will about equal our actual production on the same day. Sabotage or bombing could actually make it lower. A detailed analysis of the major factors which further or hamper the production of aircraft is necessary to lead up to an estimate of 1951 aircraft production. These major factors are

- **Facilities** which, in turn, are made up of plant; and machinery and equipment.
- **Materials together with machinery** are of vital importance not only to the aircraft industry but also to the evergrowing number of subcontractors. The time consumed by the aircraft industry and its suppliers to round up the raw and basic materials and supplies and to fabricate and assemble an airplane leads to the crucial problem of
- **Lead time and flow time** which is so much talked about today.
- **Manpower**, of course, is an essential element of any discussion of production. Several factors require analysis. They may roughly be broken down into company management; employment; working shifts and overtime; and several other factors.

And, finally, there is the question of the efficiency of

- **Government organization** and how it is set up to handle the problems.

1. Facilities

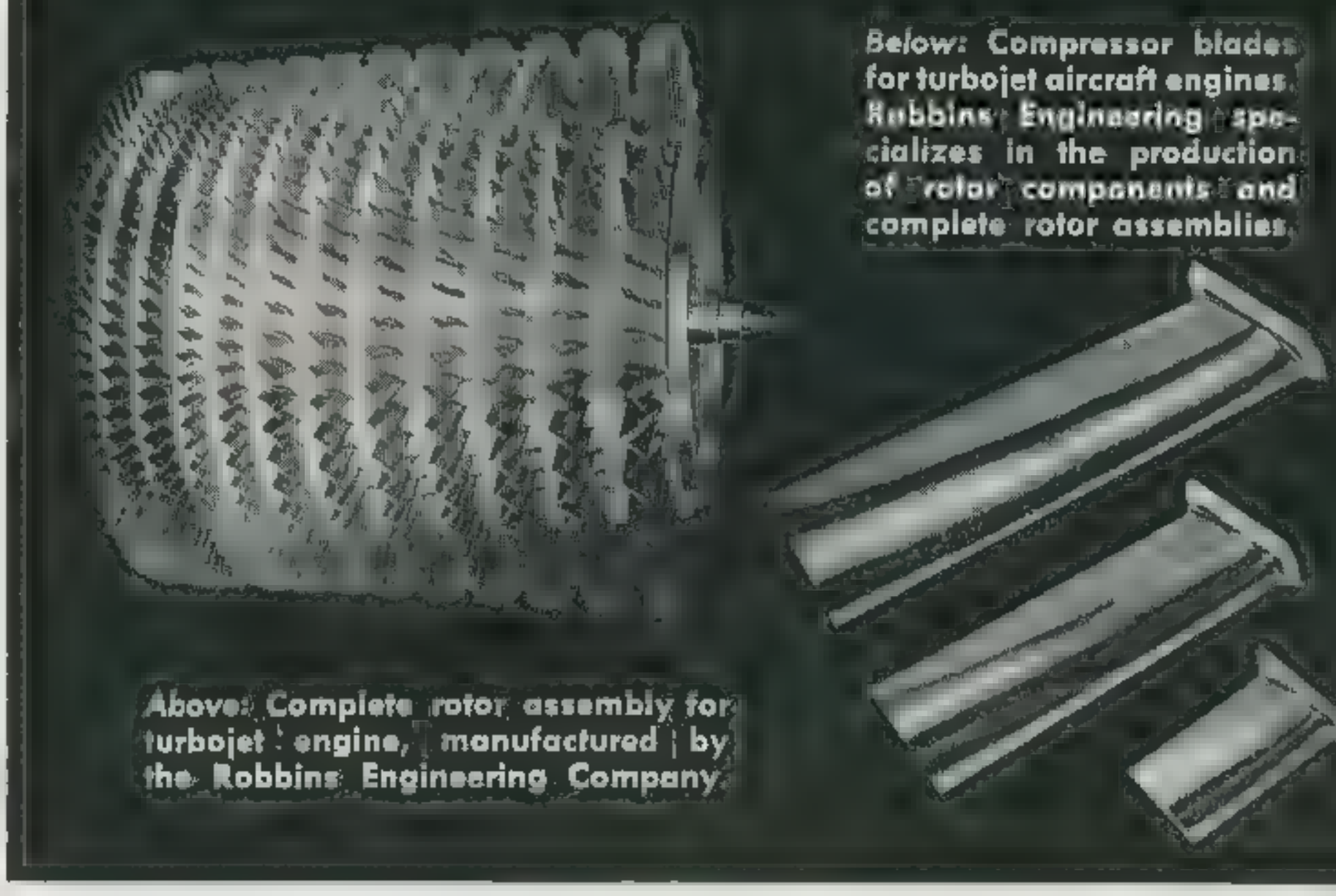
► **The plants**—Of all the thing needed to build more airplanes, it is the plants —the brick and mortar part of production facilities—which are the smallest problem.

If we assume somewhat more than 60 million square feet of floor space for the major airframe manufacturers and a possible output of 9 to 10 pounds of airframe weight per square foot per year, our plants are sufficient to produce about 550-600 million pounds of airframe weight. This weight, translated into airplanes of about 12,500 pounds, comes close to the capacity of 50,000 planes per year asked by the President. With a few exceptions noted below, it is more than sufficient for our present and planned actual production.

Some new construction will be re-

(*Continued on p. 63*)

Jet Compressor Parts



Below: Compressor blades for turbojet aircraft engines. Robbins Engineering specializes in the production of rotor components and complete rotor assemblies.

Above: Complete rotor assembly for turbojet engine, manufactured by the Robbins Engineering Company.

Machined and Assembled to Rigid Specifications

The machining of jet compressor parts and the assembly of complete rotor units require an organization having specialized tooling and inspection equipment and plenty of aircraft know-how. Turbojet engine builders are enthusiastic about the work of the Robbins Engineering Company, a subsidiary of Ex-Cell-O Corporation.

The Robbins organization is cooperating whole-heartedly with the program to build up air power for the defense of our country. All its efforts will be directed toward this end in the present emergency.

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51 20

duce gear ratio and install field rheostat in rudder servo motor circuit to reduce stall torque. Prototype installation must be approved by a CAA regional office (Model 2-0-2 only). Martin Svc. Bul. Nos. 104A and 114 cover this.

At next major overhaul, strengthen nacelle structure (Martin Svc. Bul. No. 144 for Model 2-0-2, No. 145 for Model 2-0-2A).

Navy Calls Back EAL's Leased DC-4s

Eastern Air Lines must turn back all 17 of its Navy-leased Douglas DC-4s, reducing Eastern's fleet by about 15 percent—from 96 to 79 planes. This seriously curtails Eastern's low-fare air coach service, as almost all EAL air coach goes in DC-4s.

Eastern had already turned back its four cargo DC-4s shortly after the Korean outbreak The first four 60-passenger DC-4s go to Navy Air Transport Service this month. The last nine go to Navy three a month starting June.

This comes at a time when Eastern's traffic demand is at an all time high. There is no relief in sight until late this year, when the first deliveries of Martin 4-0-4s and Lockheed Super Constellations are due to start. But President E. V. Rickenbacker is dickering for possible charter deals to fill the gap.

Eastern has 60 of the 44-passenger 4-0-4s and 20 of the 88-passenger Super Connies on order.

Eastern got the Navy DC-4s from the War Assets Administration late in 1945 on a long-term lease. When the Korean war occurred, Eastern was negotiating for outright purchase. To equip the planes for commercial use, Eastern had converted four as cargo-liners and rebuilt the other thirteen into passenger planes. Total cost of conversion was about $300,000 each, or a total of about $4 million; almost all of it is amortized now

AAA Gets Important Route Extension

All-American Airways now has CAB approval of the coveted route extension from Atlantic City to Newark via Asbury Park. It improves AAA's position as a local. It gives the carrier a more circular route pattern; before AAA had stop-end wheel spokes that meant uneconomic turn-around delays and relatively poor East Coast service.

CAB set July 9 as date of the extension but AAA has petitioned for June 1, so it can get full benefit of the improved route pattern on summer schedules.

AAA plans two roundtrips daily, Washington-New York via Baltimore, Dover, Atlantic City and Asbury Park.

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For Example

One Gilfillan contract gives work to several thousand companies.

How far can you spread the work around from one contract? The answer to that question may be surprising. The Air Force was curious about it and performed an analysis which shows rather startlingly the extent of subcontracting. You can get a quick idea from the facing chart, which shows subcontracting on an item of avionics equipment.

Purpose of the Air Force analysis was to determine the benefits derived by industry as a whole from a government procurement contract. The analysis was limited to industry located in Southern California and covers all levels of subcontracting.

The definition of a subcontractor as used in the analysis is any industrial firm that is furnishing labor, or material upon which they have expended labor, which is to be used in the end product. A supplier as used in this analysis is any business firm supplying raw materials, government standard parts, catalog and brand name products.

The contract selected for this analysis is contract W33-038-ac-29653, held by Gilfillan Bros., Inc., 1815 Venice Blvd., Los Angeles, Calif. Under this contract Gilfillan supplies the Air Force with Ground Control Approach radar equipment and spare parts. This equipment is used on the ground and is housed in two large trailers.

In developing the analysis, a complete list of Gilfillan Bros. Inc. subcontractors was obtained for the first level. The list numbered 159 companies.

An analysis of the 159 companies showed the following:

- 47% of the companies have 25 or less employes.
- 20% have from 26 to 50 employes.
- 16% have from 51 to 100 employes.
- 11% have from 101 to 200 employes.
- 6% have over 200 employes.

From the list of 159 companies, four of the larger subcontractors were selected for a detailed analysis. These four were Weber Showcase & Fixture Co., Weber Trailer and Mfg. Co., O'Keefe and Meritt Co., and Airquipment Co. These companies were found to have respectively 37, 28, 42 and 15 subcontractors.

An analysis of these 132 subcontractors showed:

- 50% have 25 or less employes.
- 19% have between 26 and 50 employes.
- 12% have from 51 to 100 employees.
- 11% have from 101 to 200 employees.
- 8% have over 200 employes.

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Microcast nozzle partitions in a diaphragm assembly on General Electric J-47 jet engine

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1951 is an improvement over the year before. Last year NWA reported losses in each month through May, with total five-month loss of $4,287,828. This year, first-quarter loss was $1,614,537; April showed a profit of $116,228; and May also made a profit—unreported as of last week.

►**Pan American World Airways**—CAB examiner recommended that PanAm be allowed to drop Philadelphia as a terminal for trans-Atlantic service. He said TWA should continue to serve the city on direct overseas flights with daily trans-Atlantic service. Both lines want to drop the service.

►**Pan American-Grace Airways**—Panagra's 55,115,000 revenue passenger miles the first five months this year are 30 percent over 1950.

►**Seaboard & Western Airlines**—S&W DC-4s averaged 13 hr. 24 min. daily utilization in April, compared with an average January-April utilization of 12 hr. 18 min. These figures are for both Pacific military contract operations and North Atlantic commercial operations.

►**Southern Airways**—Southern's board of directors has elected operations manager Hugh W. Davis to be vice president in charge of operations. . . . Southern carried over 8,000 passengers in May. . . . Southern now flies more than 8,000 route miles a day between 31 cities in eight states.

►**Trans-Texas Airways**—Trans-Texas has followed Pioneer in asking CAB for the routes of Central if CAB takes away Central's certificate. TTA also wants to branch out on its own—asks route extension east to New Orleans, west to Los Angeles

►**Trans World Airlines**—TWA has followed American in adding a second one-stop transcontinental air coach, doubling the daily coach schedule. Old service is via Chicago. The new one is New York-St. Louis-Los Angeles. It is a daylight service. This gives St. Louis its first nonstop service to both coasts and its first high-speed air coach to either coast. Both TWA coaches are 81-passenger Constellations. TWA also runs a daily New York-Los Angeles Coach DC-4, making seven intermediate stops. . . . TWA revenue passenger miles for first two weeks of June were 67,500,000—up 28 percent over last year.

►**United Air Lines**—UAL flew 169,912,000 revenue passenger miles in May—up 29 percent over last year. Mail ton miles were up 61 percent; express was up 34 percent; freight declined 11 percent.

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device by addition of three tubes, external gain control, batteries and output circuit.

Despite the growing complexity of multiple component units, they are more susceptible to line production methods. Says the report: "Mechanized fabrication techniques can be applied more readily to such elements than to an equivalent subassembly of individual components, thereby reducing production time, costs and the human error factor.

"The work of the manufacturer who fabricates finished products is simplified because the number of soldered connections, mounting strips, binding posts, and stray wires is greatly reduced."

▶ **Mechanization**—This development of multiple component units is only one of several encouraging production methods found by the Stanford researchers. Their report points out that for some years now U. S. electronics producers have used mechanized methods, and the multiple components idea fits right into that concept. Another branch of it is packaged subassemblies which are fed right into the final assembly line.

The Stanford report is blunt about the need for mechanization: "The labor force necessary to produce, by methods used during the last war, the much greater quantities of equipment that will be demanded in the event of future global war, simply will not be available."

But substantial progress in mechanization was found. In addition to the multiple components, these were prefabricated circuits, a start toward mechanized assembly of components, and mechanized connection of components to prefabricated circuits by techniques already developed to replace hand soldering.

▶ **Assembly Machine** — Dovetailing neatly with the U.S. defense planners' program of expanding the base of production is a technique of mechanized construction of electronic equipment that the Stanford report found was given a trial in England following World War II.

Sargrove Electronics Ltd. built a machine intended for the mass production of five-tube radio sets. Conductors, resistors and capacitors were fabricated directly onto the base panel as the latter passed through the machine. Tube sockets were automatically attached to the panel. Only hand work that had to be done was attachments of such things as the speaker and transformers.

The Sargrove machine was a pioneering effort which failed not necessarily because of the limitations of the machine itself, but because—as the Stanford report indicates—it was really ahead of its time. Its initial cost was $250,000. But it had to have a production run of at least 20,000 sets before it could compete with conventional manufacturing methods. And annual production rate was 500,000 sets. Tooling for a new model set requires eight to ten weeks—but after that the new model can be pouring from the machine in a few days.

▶ **Too Big**—Looking at the Sargrove machine from a standpoint of avionics equipment for air power, its most serious limitation would be the tremendous quantities necessary to make it economically worth-while. As has been pointed out, such quantities just aren't being contracted now. Neither the tooling time nor the initial cost is excessive when measured against present production techniques.

During the congressional hearings on the Air Force budget, it was brought out that tooling for production of an electric generator for starting the B-47 takes five months. Before that point is reached, it takes 30 days to make the production drawings. After the tooling is set up it will take another 60 days before the first five generators are produced. Five more months—bringing the total time to 13 months—will be required to attain full production.

The Air Force calculates that generally the lead time on avionic items is nearly 20 months. This almost two-

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which might cost $400,000 and cannot be assembled on a production line. "Assembly might be done by a total of 60 people," he declared, "of whom half must be engineers."

There are even more striking examples. Bendix is producing a mobile search radar which costs the AF $782,798, weighs more than 90,000 lb. and requires fourteen 2½-ton trucks to transport.

This particular radar set, according to the Air Force, requires 35,000 production manhours. On the basis of 2,000 manhours a year, and using only one of many possible combinations, that could mean 50 men working about four months. A quantity of less than 100 of such units would be a large order in terms of AF expenditures—but not in terms of production manhours available in the avionics industry.

▶**Meshing the Gears**—If money for expenditure can give a deceptive idea of the avionics industry's production potential, a study of schedules strengthens the misconception. Avionic production is geared to aircraft production, and manufacture of some avionic items is being carefully regulated to keep the two programs meshed.

Avionic items now generally arrive in an airframe manufacturer's plant about four weeks before installation date. Most airframe producers would like to have the avionic equipment in their plants about four months ahead of installation. Plans are eventually to meet that goal. But right now most airframe people aren't ready for such a schedule

Not long ago, government procurement men made a test. They took the brakes off one particular item and let the avionic producer meet the delivery dates asked by an airframe manufacturer. The latter couldn't use the equipment fast enough, and had insufficient space to store it.

▶**Slow to Get Tough**—That, however, is by no means the common situation. There are many other items which are not keeping pace with aircraft production. The Air Force insists it has not refused acceptance of any aircraft because of missing avionic gear. But it has had to accept planes without all the avionic devices programmed for those planes.

Such planes are operational only in this country and for certain purposes. Without the missing items, they are not ready for combat. More serious, perhaps, is that every day aircraft are being accepted with avionic gear that does not meet the latest Air Force specifications.

Those specifications are difficult to meet. Airborne avionic equipment should be hermetically sealed, have minimum size and weight and a minimum life of 1,000 hr., and operate with efficiency at 70,000 ft., and when subjected to temperatures between −60C and +200C, and shock of up to 50G for 10 milliseconds. Those specifications now are more than a year old. There is little equipment that meets them in the laboratory, and even less outside.

▶**Take Tubes**—Meanwhile, the Air Force makes do with what it has. An example is vacuum tubes. Insufficient reliability of six types of tubes used in certain navigational, fire control and bombing systems has been one of AF's biggest headaches for several years. A recent Air Materiel Command report states that 50% of all aircraft mission failures are due to unpredictable failures of vacuum tubes.

To illustrate the problem, the report details that to mount a 40-aircraft B-50 mission, considering only the navigational system, requires that 10,000 vacuum tubes must operate for 15 hours. That equals 150,000 tube hours or the equivalent of a six-tube household radio operating continuously for three years. "In this case," reads the report, "a tube failure rate of only four-tenths of 1% could cause a complete mission abort."

When the Air Force considers tubes vs. a B-36 mission the figures are

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Aircraft Record of Auto Plants

POTENTIAL available in the automobile industry to increase aircraft production is indicated by the record in World War II when the 613 member companies of the Automotive Council for War Production delivered aircraft and parts valued at $11.2 billion to the Armed Forces.

A TABULATION of aeronautical products which the automotive manufacturers produced, leads off with **455,522 aircraft engines, 22,160 complete airplanes, 4,290 gliders and 219 helicopters,** *along with a large quantity of other aircraft products and related components and accessories.*

SOME of these include: aircraft propellers, 255,518; jettisonable fuel tanks, 981,350; buzz bombs (V-1 and similar type missiles), 1292; rocket motors, 1,177,000; rockets, 2,850,000; machine guns, 2,276,204; airplane landing mats, 50,136,000 sq. ft.; radar computers, 2,600; radios, 118,000; gyro compasses, 5,500; climb indicators, 5,400; heat exchangers, 304,577; electric motors, 5,059,000; aircraft bombs, 5,150,000.

low gear and start a tiny trickle of the vast military aviation flow which it proved it could launch in World War II.

• **Machine Tools.** Those aircraft and engine makers who have been singing the blues about machine tool shortages, can move over to make room for some lusty new voices in the chorus from Flint and Wayne, from Mt. Clemens and Utica, and many another auto town in and outside of Michigan, which is trying to get started on an aviation program, and can't find the tools.

• **Structural Materials.** Approximately half the manufacturing space now scheduled for the major airplane and engine programs of the automotive industry is plant space yet to be built. So the big auto companies have their worries, too, about structural steel and the building material shortages which are again plaguing the regular aviation companies.

• **Procurement Decision Lags.** But, probably the most exasperating thing about the present program and the one which most especially has the automotive production planners cursing fluently to each other, is the seemingly interminable lags on necessary government decisions which govern the timetables of their programs.

A large part of the fault, at least, does not lie with the Air Force and Navy procurement officials, the auto manufacturers are prompt to point out, but with the many peacetime regulatory safeguards and legal padlocks which have been added since World War II. These effectively block speedy procurement action and would never be tolerated in an all-out wartime situation, some embittered automotive analysts say. Especially lagging are the decisions on new plants and facilities, even after the services have definitely decided that they want these and have given the initial go-ahead. Decisions are made, but the necessary follow-through lags.

"For an example, look at the new Chrysler J-48 plant project at Mt Clemens," was the comment of another manufacturer's executive. "Way back on last January 5, the Navy announced an agreement under which Chrysler was licensed by Pratt & Whitney to build the J-48 in a new plant outside Detroit. And just this month, September, 9 months later, Chrysler was permitted to break ground to start the plant. If Chrysler had been doing it, the plant would be almost finished by now."

The Causes

A brief examination into the causes for the delayed decisions for Chrysler and for other new plants being built for Ford, General Motors, Packard and other companies, seems to indicate that the new chains of command and superstructure set up as a part of Defense Department unification and the legislative safeguards which Congress has enacted are the principal barricades cutting off faster action.

No matter how efficient the administrators are in the Navy and the Air Force, and even at Secretary of Defense levels, they can't shortcut the legislative red tape.

It will probably take congressional action if procurement decisions are put

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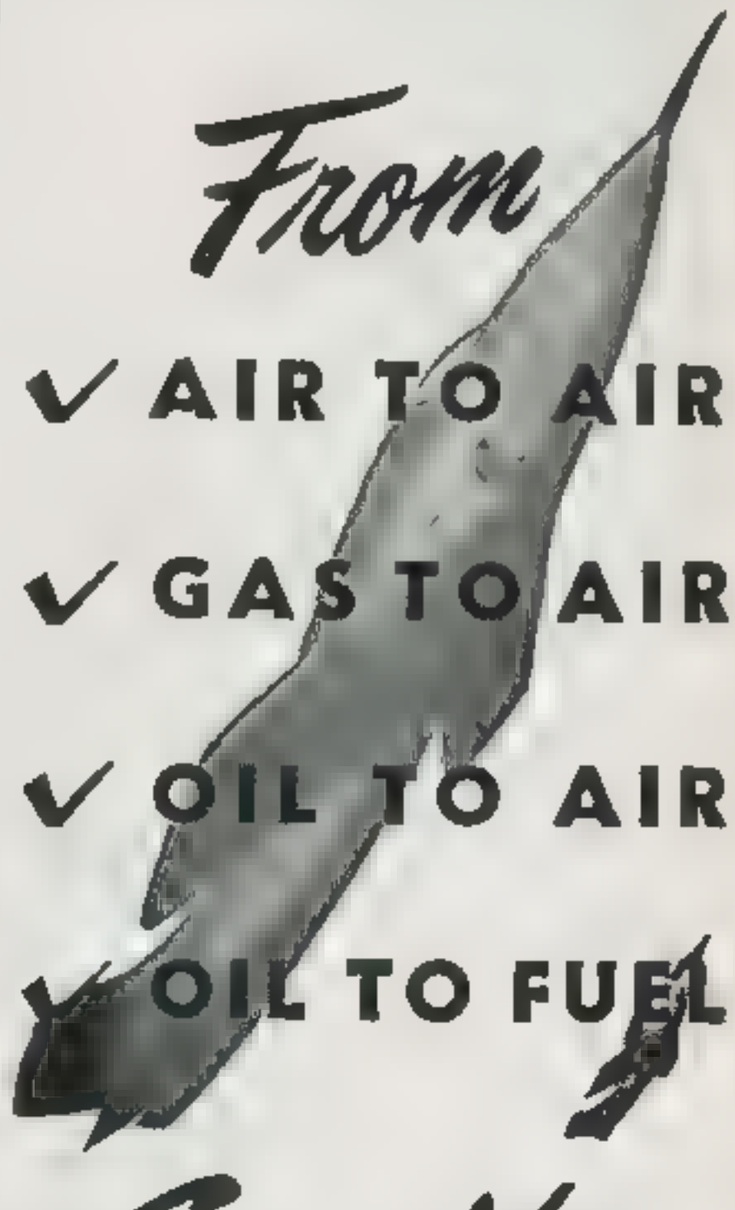

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these plants to make a different engine, the switch involves handicapping local workers who will obviously not be as efficient in beginning production of a different engine model as if they were returning to work on an advanced model of the same powerplant they had formerly produced.

► **Three Complete Planes**—Airframe contracts thus far call for three complete planes, the Republic F-94F jet fighter, and the Fairchild C-119C and Chase C-123 combat transports to be built by automotive builders, General Motors and Kaiser-Frazer respectively. Probably soon to be added to the list will be a contract for General Motors to make the Grumman F9F jet fighter in a new Texas plant.

Major airframe assembly subcontracts include a Ford program to build Boeing B-47 bomber wings, Chrysler to build tails for the Douglas C-124 transport, Hudson to make aft fuselages and tails for the Martin B-57 Canberra bomber, Kaiser-Frazer to make fuselage sections and flaps for the Lockheed P2V bomber, and the Chrysler-Plymouth program to build complete hulls for the Grumman SA-16 rescue amphibian.

Following is a more detailed roundup of the principal aviation projects of each of the larger automotive manufacturers.

Chrysler Corp.

Largest current assignment of Chrysler Corp. in aircraft work is the Dodge program to make the Pratt & Whitney J-48 turbojet at a new 1,600,000-sq. ft. plant to be built on a 306-acre site at Mt. Clemens, Mich. Estimated contract value of this project is $140 million. Engine powers the Grumman F9F-5 Panther and the Lockheed F-94C and F 94D interceptor and ground support plane.

Besides the assembly plant at Mt. Clemens, components of the engine will be made at other Chrysler plants, so that 6,000 employed at the assembly plant will be only a portion of the productive workers on the project. Second current project is the Plymouth division's Grumman SA-16 hull program at the Plymouth assembly plant at Evansville, Ind. This will employ about 1,800 persons at maximum capacity and will occupy about half the plant space. A third Chrysler project, details of which are not yet firm, calls for manufacture of Douglas C-124 tail surfaces in the Los Angeles Chrysler plant.

Ford Motor Co.

Biggest single automotive-aircraft project in dollar value, at least among those unofficially disclosed, is the $563-million Ford contract to build Pratt & Whitney R-4360 engines, at the huge 6.3-million sq. ft. Chicago plant where Dodge built Wright engines in World

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space, less expensive machinery and more workers. Assembly yield is dependent on manpower, tooling and efficiency rather than on machine output.

In **sub-assembly**, multiple tools and shifts are utilized to reach a desired initial production level, following which the continuing increase in worker efficiency is either applied to accelerated production or to reduction in tooling and shifts.

In **final assembly** where organization of worker skills is of prime importance only the day shift is utilized

Lockheed's example clearly indicates that the use of multiple shifts is severely limited for economic reasons. Shortage of factory space or production schedule requirement may force uneconomical use of multiple shifts. But at present, the economic motives are the guiding ones.

In summary: Weekly hours have gone up about 10 percent since Korea. Most workers are still on day shift.

► **Other Factors**—Labor turnover is on the increase. For every three workers hired, two are leaving; housing shortages and high rents are a major cause.

Absenteeism through which more than 6% of man-shifts scheduled were lost during the second half of 1944 is again serious.

Until September, strikes affected the industry mostly indirectly through shortages of materials coming from other industries.

5. Government Organization

The Harvard Report on World War II says that an effective job of government management requires:

- **Adequate preplanning.**
- **Prompt setting** of adequate production goals.
- **Skillful government** administration of the job.

In the present emergency, government has undoubtedly done much better in preplanning and in the setting of production goals. Except for a short period, the setting of production goals has probably kept pace with readiness by the Congress to accept higher and higher budgets for aircraft procurement.

The two major problems appear to be an insufficient realization of the nature of the emergency, and a resultant unwillingness to impair production of civilian peacetime goods by more aggressive allocation of materials to the aircraft industry.

With a large amount of the defense effort being directed into expansion of "basic" production facilities it often appears as if production increases to have an air force-in-being were intentionally being delayed.

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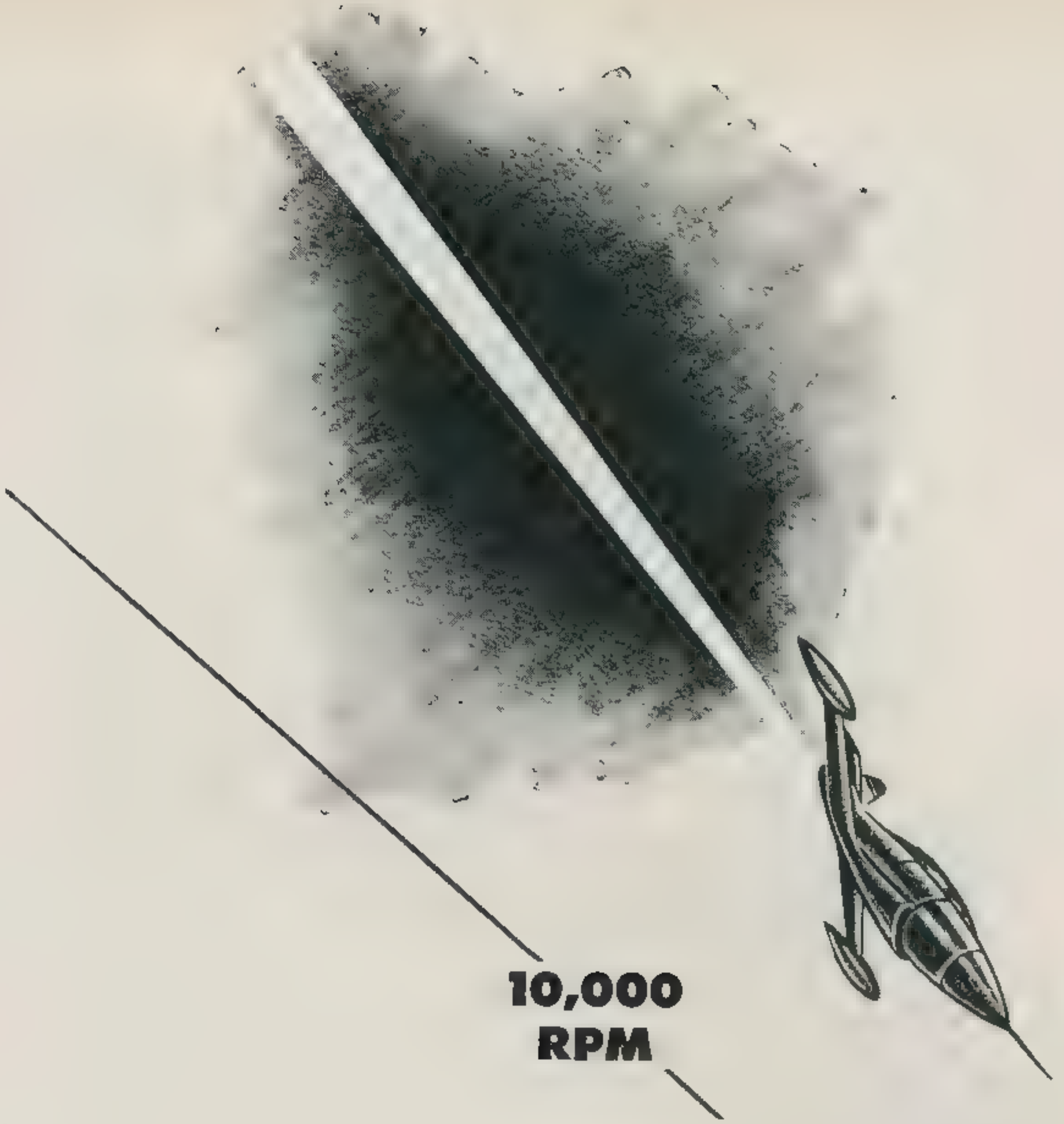

10,000 RPM

The turbine shaft of a present day turbo-jet plane makes approximately 10,000 rpm. That's about 1,800,000 revolutions on a 3-hour mission. That's an impossible rate unless friction is held to the minimum—unless bearings are able to withstand highly elevated temperatures and tremendous rotative speeds

Bearings do stand up—because of unremitting cooperation.

SKF has long worked closely with aviation engineers in designing, engineering and manufacturing bearings with tolerances held to millionths of inches, bearings with stamina to withstand the tremendous punishment dealt them by supersonic speeds.

SKF will continue to help put the right bearings in the right places in aviation. SKF will continue to maintain consistently uniform dependability by rigorously controlled manufacturing processes. 7228

8 REASONS WHY SKF IS PREFERRED BY ALL INDUSTRY

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Vibration isolation and shock protection for Airborne Equipment

FOR LEAR INC....

Robinson Engineered Mounting Systems, similar to the Met-L-Flex base above, are being used by Lear Inc. for their famous aircraft electronic equipment after extensive in-flight and laboratory tests.

First Engineered Mounting Systems
- with *All-Metal*
- with MET-L-FLEX
- with APPROVAL

Vital and costly equipment aboard new high performance aircraft must be protected through extreme conditions of vibration, overload and shock. Engineers have found that "off the shelf" mounts seldom deliver the required results and therefore they look to Robinson Aviation for systems *engineered* for the specific application. Current Robinson Met-L-Flex Mounting Systems exceed the requirements of JAN-C-172A and Applicable specifications. Met-L-Flex systems are available in JAN form factors and special designs, to fit your equipment.

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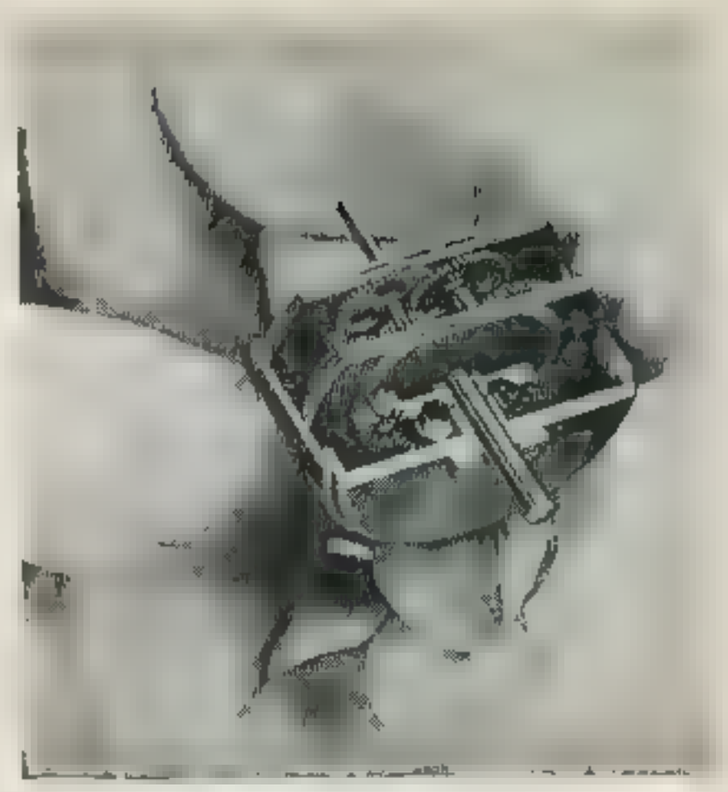

Midget Gear Trains

Sealed, self-oiling gear trains, designed for transmission of small amounts of power, now are available from Telechron, Inc.

While these units normally are supplied with gear ratios ranging from 7200:1 to 25.1, they now may be obtained with ratios as high as 216,000:1 —depending on load involved.

The gear trains are compactly designed. In addition to their sealed, self-oiling features, they use hobbed—rather than stamped gears. Machined to close tolerance, gears are built to give accurate, quiet operation and long life. Address: Ashland, Mass.

ALSO ON THE MARKET

Load cells for measuring forces or weighs in tension only in aircraft stress tests have capacities of 10,000, 20,000, 50,000 and 100,000 lb. Single indicator will give separate measurements from number of cells, or load may be distributed among several and automatically totalized. Accuracy is within .25 percent of rated capacity, says maker, Baldwin-Lima Hamilton Corp., Philadelphia 42.

Internal thread comparator measures from pitch line of one thread in a nut to pitch line of two threads lying directly opposite it. Instrument gives plus or minus deviations from basic pitch and reads in tens of thousandths. For any one setting, device has range of ±.003 in. Made by Rimat Machine Tool Co., 1117 Air Way, Glendale 1, Calif.

Small, air-operated drill motor permits production-line drilling of small holes at close quarters. It's designed to fill need for more powerful, longer-life unit of this type and is particularly useful in aircraft manufacture, says maker, Cleco division of Reed Roller Bit Co., 5125 Clinton Drive, Houston, Tex.

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fission is an easier process to place under control.

The moderator generally considered is graphite of high purity. The uranium fuel is placed in a lattice arrangement in lumps rather than in a finely divided dispersion. This is partly for convenience in handling (which will be considered later) and partly because it increases the overall efficiency of the reactor. In practice a slug of uranium results in less non-fission capture of neutrons than does the tiny-particle mixture.

The shape of the graphite-uranium lattice also has bearing on the number of neutrons which escape from the system or which are made available to further reaction. The number escaping is a function of the surface area of the reactor; the number captured is a function of the volume. Obviously, the way to keep captures high and escapes low is to have a maximum ratio of volume to surface area. The geometric solid with the highest volume/area ratio is a sphere.

► **Bounce Them Back**—There is another step that can be taken to decrease the number of escapes from the reactor: this is to use a neutron reflector. A substance such as beryllium oxide acts like a mirror to neutrons, and bounces escapees back into the interior of the reactor.

The simplest method of controlling the reactor is to control the fate of neutrons, and so keep the multiplication factor of the system exactly at unity. Theoretically, this could be done by building the entire reactor exactly at critical size; this would be a task which would demand perfect calculation of the properties of every piece of material that comprises the reactor, and complete knowledge of the chemical composition of the pieces, and other impossible data. So rather than attempt the impossible, extra control materials are used in conjunction with a pile of near-critical size.

Some material with a high capture cross-section for neutrons is used for the control rods. These would be inserted into the reactor, and by being withdrawn or inserted, would control the absorption rate of neutrons by the control rod material, and thus change the level of neutron production of the reactor.

► **Schematic Reactor**—These are the steps in first considerations of a typical reactor, based only on the problem of making a controllable amount of heat energy available.

Summing up these steps, the rudimentary reactor is a sphere of lumps of uranium in graphite. Surrounding the sphere is a neutron reflector. Projecting through the reflector and into the sphere are neutron absorbers.

Energy released is in the form of kinetic energy of the fission products. This energy is dissipated by collisions, and the temperature of the reactor rises The heat is the useful output of the powerplant.

But by itself, this heat is of no more value than a large bonfire would be. If it could be used to boil water or to heat a gas, either the steam or the hot gas could be run through a turbine, for example, to produce power. This could be done in a reactor by allowing water to flow through the lattice, picking up heat as it went, and at some point flashing into steam.

Unfortunately, it isn't that simple. The water would pick up heat all right, but it would also pick up the radioactive fission products and become contaminated. Such a powerplant, because of radiation dangers, could never be run by human engineers—at least not for long

► **Safe Power**—So for safety, the first consideration in the utilization of the heat output of a nuclear reactor is to be able to transfer the heat to some medium without the presence of radioactivity. This means an intermediate heat transfer fluid. And it would have to be sealed in a circulating system, closing in the reactor and one side of a heat exchanger. The heat would be transferred through the heat exchanger and into a working fluid. The vapor state of the working fluid furnishes thermal energy for running a conventional turbine.

And of course, the entire reactor is shielded to protect personnel.

That's the complete—if very rudimentary—story of the nuclear powerplant.

All that remains is to have the engineers fill in the details.

And that is not simple. It is the study of just these details that has taken so much of the money and time that has been spent on nuclear energy during the past decade.

► **Materials**—First among the detailed problems is the selection of materials for reactor and components of the system. This presents three major problems·

• **Temperature.** In order to get high overall efficiencies of any heat engine, the final temperature of the working medium coming out of the engine must also be high. This has been emphasized in the jet engine field by the quest for new, high-temperature materials, but in atomic power fields the materials search has hardly been started.

• **Structural disruption.** It is entirely possible that the bombardment of materials by high-energy particles, such as neutrons, might displace atoms permanently from their crystalline lattice. Displacement of atoms can cause serious changes in mechanical properties of materials. As one example, the elec-

through a short rubber coupling. A guide for the polishing wire is supported by a pivoted assembly above the working area, so that the weight of the guide holds the wire against the specimen. The abrasive, a thin air-agitated mixture of emery and water, is fed to the wire from a reservoir through a valve-controlled tube.

The motor that drives the polishing wire also drives the headstock of the lathe through a 100-to-1 reducing gear. By keeping motor speed and polishing time constant, as well as the ratio of wire speed to specimen speed, high uniformity of finish is assured.

And the finish is very similar to that produced by the machine for finishing smooth specimens.

► **Thin-Sheet Arrangement**—Because of the large deflection required, sheet metal of less than about 0.015-in. thickness cannot be fatigue-tested in bending on commercially available testing machines of the cantilever type

By deflecting the specimen as a column, a newly-developed NBS fatigue-testing machine makes possible the bending of specimens to a small radius of curvature without large amplitudes of motion in the driving mechanism. Because the machine holds several specimens at once, considerable testing time may be saved

The new thin sheet fatigue tester was adapted from a Krouse plate bending fatigue machine. Specimens 1 in. high by ½ in. wide are held in place by grooves in two horizontal arms While the lower arm remains stationary the upper arm, pivoted at one end, is moved up and down at the other end by a crank arm and adjustable eccentric. At the top of the crank-throw the arms are parallel, and the distance between the grooves equals the length of the specimens. When the upper arm is moved down by the crank, the specimens are loaded as columns and assume bowed positions. Bending is greatest, of course, for the specimen nearest the crank.

An automatic stopping device used with the machine takes advantage of the fact that after a crack forms, the specimen no longer deflects in a smooth curve. An adjustable contact assembly is clamped to the lower arm of the machine and adjusted so that the intact specimen nearest the crank just fails to touch the contact disk at its maximum deflection

Cracks tend to form near the center of the specimen, and when a crack starts, a "hinge effect" causes the middle of the specimen to deflect more and make contact with the disk. This contact operates an electronic relay, stopping the machine.

When a group of identical specimens are set up in the machine, the one nearest the crank, since it is subjected to

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Here's news on the vital problem of anti-icing the new knife-sharp jet wings: a brand new heater that packs more heat into less space than ever before—by using "squeezed air"! Because space limitations crowded conventional heaters out of the picture, Surface Combustion engineers had to "beat their own best" to achieve the necessary capacity and compactness.

A small percentage of high pressure air is bled from the jet compressor, fed into a pint-sized heater for a temperature boost up to as high as 650° F! The super-heated air is then piped in small tubing to the distribution system . . . This job is only one of many Janitrol developments that hold great promise for aircraft of the future. If your heating problems call for imagination, foresight and a wealth of hard-earned experience you'll do well to get in touch with your nearest Janitrol representative.

F. H. Scott, New York, N. Y., 225 Broadway; C. B. Anderson, Kansas City, Mo., 1438 Dierks Building; Lee Curtin, Hollywood, Calif., 7046 Hollywood Blvd.; Frank Deak, P. A. Miller, Central District Office, Engineering Development and Production, Columbus, Ohio; Headquarters, Toledo, Ohio.

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AIRCRAFT-AUTOMOTIVE DIVISION • SURFACE COMBUSTION CORP., TOLEDO 1, OHIO

section in ARC-1) and add omnirange channels. The receiver may be set up for operation on a 200kc. basis simply by omitting 10 crystals.

The 51R-2 is a double conversion superheterodyne having a tunable first i. f. amplifier while the second i. f. amplifier operates at a fixed frequency. The set provides these facilities:

• **Voice communication** on localizer and omniranges as well as on all regular VHF communication channels.

• **Tone and phase localizers,** including flag alarms.

• **Automatic omnirange indication** through selsyn differential, giving combined ADF and magnetic compass presentation on radio magnetic indicator.

• **Omnirange indication on crosspointer** meter, course chosen by manual bearing selector. Includes operation of "to-from" indicator and flag alarm.

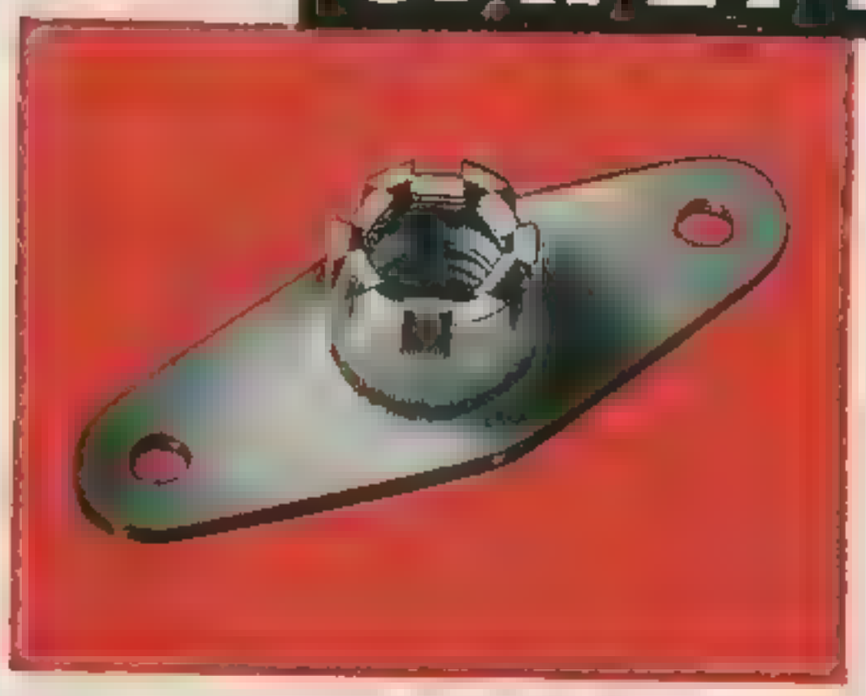
Channel selection circuits in the receiver are arranged to permit addition of a glide slope receiver to the system. Simultaneous parallel operation of receivers on a common navigation-communications antenna, such as Collins' 37J-2 ordered by TWA, can be accomplished without interference, the radio firm says. Full flag down indication on omnirange signals occurs with less than 5 microvolts r. f. input. And stable course indications are obtainable down as low as three microvolts r. f. input, Collins engineers say.

Other receiver specifications are: Stability 0.007 percent under all service conditions. Attenuation of undesired frequencies—image, receiver only, 75 db.; image, including antenna, 100 db.; adjacent channel, 75 db.; all other undesired frequencies, 80 db. Accuracy of indicating circuits—manual operation, indicated bearing will agree within $\pm\frac{1}{2}$ deg. of the mean bearing; automatic operation, indicating accuracy of ± 1.0 deg. is maintained. Audio output—single channel, 300 milliwatts to a 500-ohm circuit. Power supply—operates on either 14 or 28v. dc. with suitable external dynamotor power unit; 5 amp. required at 28v. dc. or 11 amp. at 14v. dc.

► **51V-1 Glide Slope**—Completing Collins' versatile three-set combination, the 51V-1 is designed to provide higher stability, accuracy and sensitivity than surplus R-89B receivers it replaces. It receives 90/150 tone modulated signals on any of 20 channels in the ultra-high-frequency range of 329 to 335mc.—compared to only three channels originally available in old sets.

Set up for 10-channel operation and fitted with special cleats, the 51V-1 can be mounted in the same shockmount supporting the surplus R-89B it replaces. An auxiliary connection plug (provided) and identical crystals complete its interchangeability with modified 10-channel R-89Bs.

SAFETY-FAST



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THREE SAFETY FACTORS *the new Boots Plate-Lok: 1. Resists extreme vibration even through periods of radical temperature changes; 2. Resists deteriorating influences which attack non-metal substances; 3. Maintains full locking strength under sustained temperatures up to 550 degrees, which eliminates the cost of procuring and stocking lower temperature lock-nuts.*

Plate-Loks use the Hex-Lok principle – that means high torque retention, high reusability, simplified maintenance, less weight. Meets AN Specifications.

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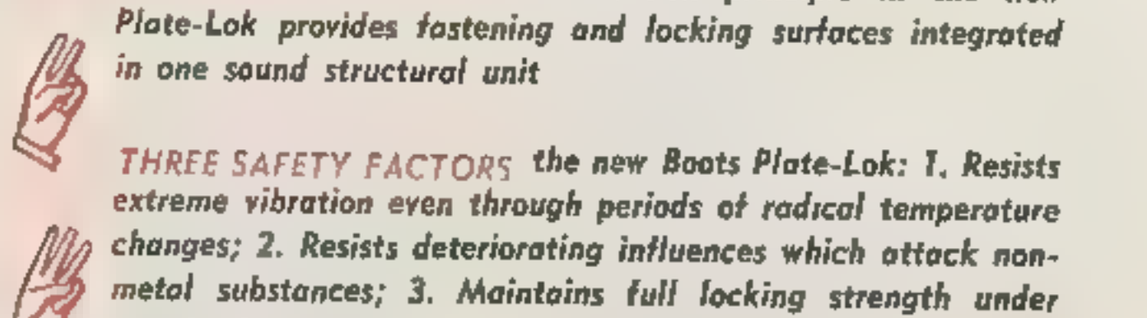

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► **Pod Principle**—However, if the gas turbine compressor unit is installed in a detachable blister or pod, the compressor unit may then be carried making the aircraft self-sufficient while moving from one airfield to another; or, on the other hand, the compressor unit and its blister could be detached for combat missions.

Then only the 28-lb. starter and the weight of some tubing could be charged to an air starter. Thus, the air starter system may find use in some single- and twin-engine jet propelled aircraft.

► **Multi-Engine Scheme**—Likewise, the cartridge starter may find application on multi-engine aircraft in an installation such that one or two engines are started by the cartridge starter. The remaining engines would be equipped with air starters which would be energized by air bled from the first engine started.

Military and design considerations are expected to determine the type of starter system which will be used. Turbojet engines delivering more than 9000 lb. of thrust will require starting power in excess of 100 hp. for a 20-sec. start and in excess of 1000-hp. for a 3-sec. start. The need for a self contained starter system coupled with these high power requirements has led to the development of air starters and cartridge starters.

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3 Aircraft Turbojet and Gas Turbine Engine Starter Systems, by A. G. Bardwell, Jr., Mechanical Engineer, July 1947

USAF Copter Instrument Course

Students qualify for blind flight after 10 hours of hooded instruction during basic copter training.

The Air Force is boosting the utility of its copters by applying the instrument flying technique

And the AF is making the procedure basic—it has been incorporated in the Service's helicopter pilot training course, where all students get 10 hours of hooded flying instruction to qualify as instrument pilots in rotary wing craft.

Here's how the program developed·

► **In the Beginning**—Preliminary studies of instrument flight in helicopters were begun in August 1949; factory tours were made, and Navy and Coast Guard users of helicopters were visited for observation.

In general, everybody was interested in the subject, but little actual development had been accomplished

The first exploratory flights were made seven months later in Mar. 1950. A Sikorsky H-5 was equipped with orange Polaroid Plastex (used with the complementary blue goggles). Standard flight instruments were used, but several were relocated for better cross-check.

After a number of these early flights, an actual instrument flight was made at Connally AFB, Waco, Texas, in conditions of 700 ft ceiling and 4 miles visibility with rain. The aircraft took off, climbed into the cloud cover, flew on course and held for approach clearance. After being cleared, the copter let down through the overcast satisfactorily. No difficulties were encountered at any time during the flight.

► **Basic Program**—These initial flight experiments led to the development of a basic program for instrument instruction on rotary wing craft.

The following maneuvers were included in the program·

- **Straight and level flight** between airspeeds of 50 and 80 mph.;
- **Turns**, including climbing and descending turns;
- **Instrument takeoff**, followed immediately by translational lift and climb to cruising altitude;
- **Radio range** true-fade orientation and beam following;
- **Autorotations** from all altitudes and under the hood,
- **Radio range letdowns** to flight minimums

GCA letdowns were not included because there were no facilities within a reasonable distance, but successful GCA flights were made at another location by the project officer.

After a service testing period, two classes began the instrument flight curriculum.

All copter students were given ten hours of instruction on instruments under the hood and five hours of instrument trainer time.

► **What Went Wrong**—There were three major difficulties which bedevilled the students during their training.

- **Overcontrolling**, largely due to the aircraft lag The student expects the aircraft to respond as fast as a fixed-wing plane, and when it doesn't, applies extra correction. Practice eliminates this difficulty.
- **Pilot fatigue**, apparent in all students at one time or another. Since the air-

THROUGH skillful engineering and design, LORD has developed a Dynafocal Engine Suspension which saves 20 pounds of weight on each Martin 4-0-4. This weight saving adds an equal amount of revenue-producing load capacity, which means more profitable operation for T.W.A. and Eastern Airlines when their new 4-0-4's are placed in service.

Development of the MR-36J Lightweight Dynafocal is another example of how LORD's advanced engineering pays a profit to the user. LORD specializes in the control of vibration and supplying of precision-made Bonded-Rubber Parts for product improvement. Let LORD engineers assist you to obtain efficient and economical answers to your vibration problems. Write to attention of Product and Sales Engineering Department.

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No single type of ignition equipment is the final solution to every operating problem. Let Bendix experience help you determine the type of ignition equipment best fitted for your specific purposes.

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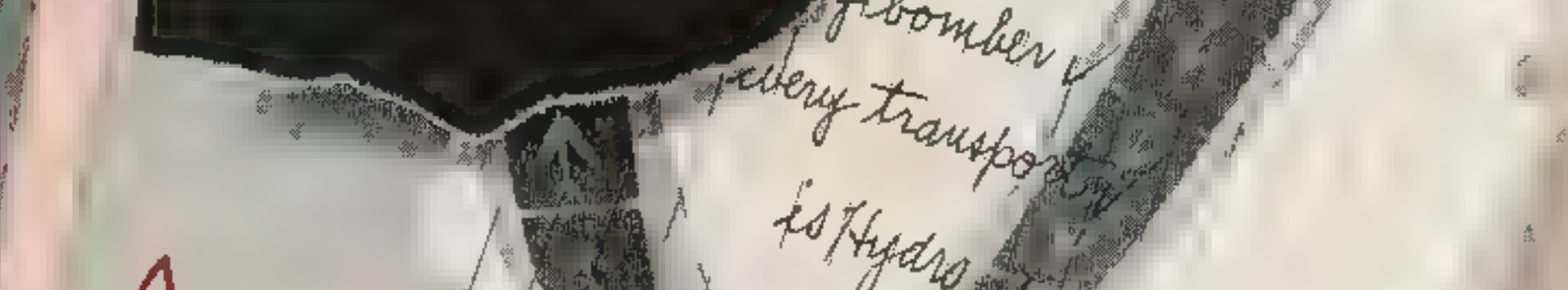

Research is the reason!

"without reduction" in providing for three-year domestic airline subsidy contracts and five-year international subsidy contracts. This would have permitted CAB to revise contracts upward, but not downward. Sen. Owen Brewster led the opposition to this revision.

An amendment by Sen. Douglas which would have geared compensatory mail rates for international carriers to actual cost of carrying the mail was defeated 58 to 23. The Douglas amendment was urged by Postmaster General Jesse Donaldson and endorsed by CAB. Pointing out that the mail cost over the trans-Atlantic route is only 85 cents a ton mile for Trans World Airlines and 98 cents for Pan American Airways, Douglas argued that the $2.86-a-ton mile Universal Postal Union rate will provide "a substantial layer of subsidy in a rate that purports to be a compensatory rate."

But a Douglas amendment was adopted providing for termination of subsidy payments to any carrier whose agents or representatives have provided gratuities of any type, including entertainment, to a government official "with a view toward securing favorable treatment."

► **Aiken Objection**—Sen. Aiken observed: "If there is any bill which tends to build up an almost air-tight monopoly for a single part of a single industry, this is it. I want to make myself clear on the record as having no part in building an absolute monopoly in air transportation between America and Europe for any one or two single airlines . . ."

3-Class Service

Steerage, standard and luxury accommodations will all be available on the same plane when United Air Lines starts flying a proposed experimental West Coast daily service. United offers three classes of service at three prices on a daily Los Angeles-San Francisco-Seattle Stratocruiser flight.

On a sold-out three-class UAL flight between Los Angeles and San Francisco, 14 coach passengers will ride in the lower-deck lounge and pay $17; 55 standard-fare passengers will ride in the main (upper) cabin and pay $21.05; and a small family or business group wanting privacy will ride in the stateroom and pay $26.05 each, excluding tax.

This daily three-class flight will be in addition to United's present 19 daily roundtrips, Los Angeles-San Francisco, and seven roundtrips, San Francisco-Seattle.

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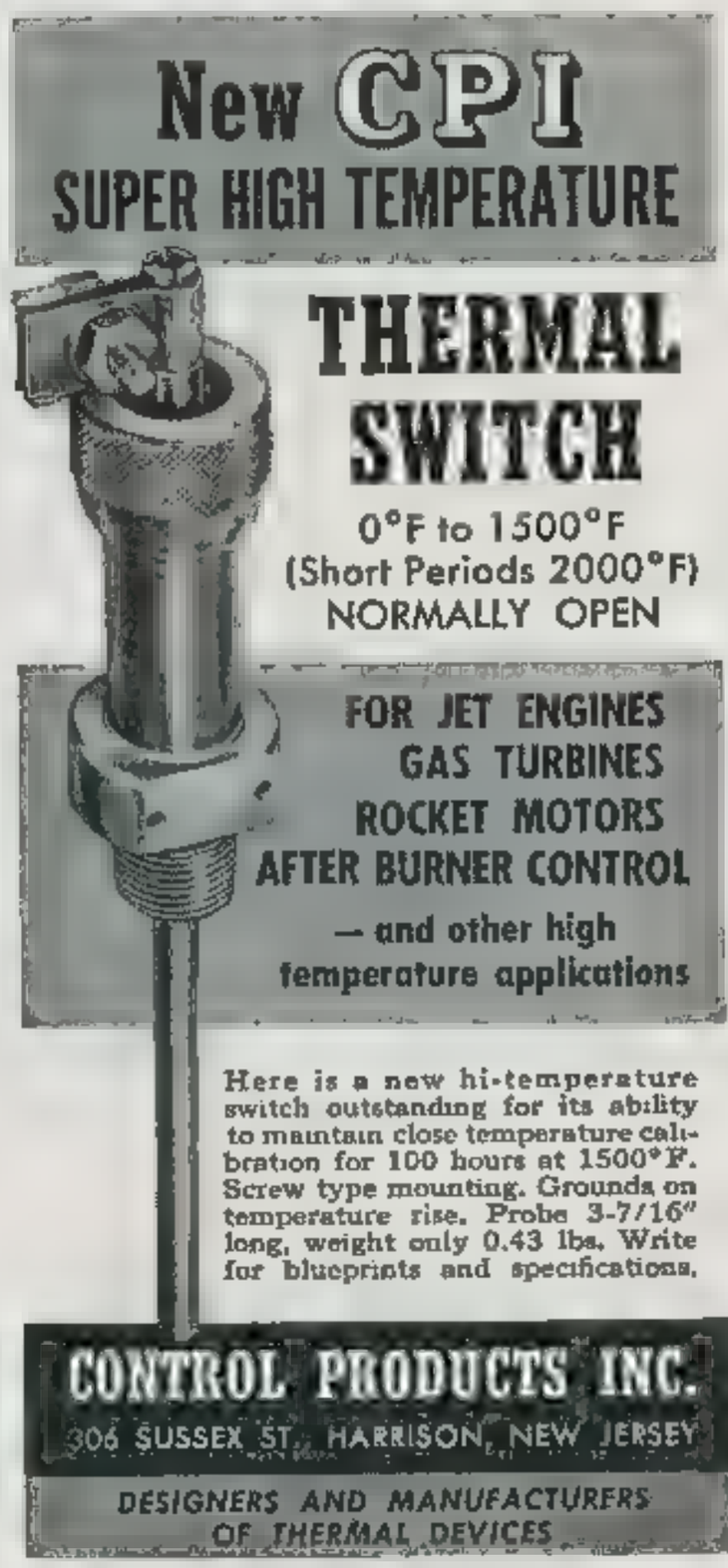
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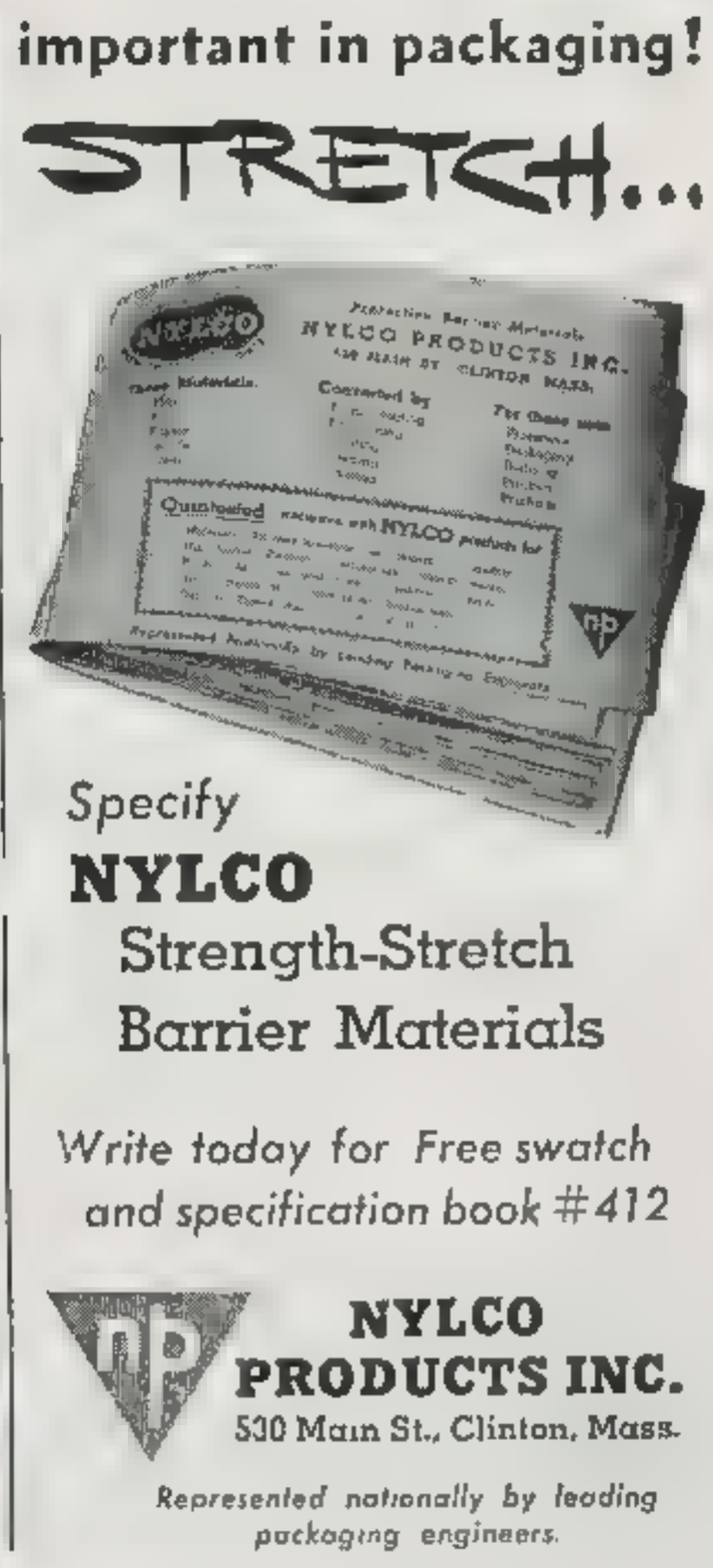

cording to PanAm, is a total pay load increase of 3,950 lb. per plane. Take-off weight jumps from 142,500 lb. to 145,800 lb. because of the new propeller, while another 650 lb. is gained because the Ham Standard installation is that much lighter than the Curtiss

Speed performance has been debated, but PAA engineers expect a slight increase at cruising speed. Another benefit resulting from the change-over will be complete standardization; the division is now using both types of propellers

Schedule calls for four props to be changed in October and three every month thereafter

NWA Adopts Analyzer For Stratocruisers

Northwest Airlines is the latest U.S carrier to adopt the engine analyzer as standard equipment (AVIATION WEEK, Apr. 2, p. 34). The airline is installing the Sperry airborne instrument on its fleet of 10 Boeing Stratocruisers.

Decision to make the installation was taken after a single test unit was installed in a Stratocruiser for one year. The test aircraft rang up these impressive figures:

- Delays due to ignition difficulties reduced by an average of 28.1%.
- Flight cancelations down 35.4%
- Spark plug changes cut by 16.8%

With such performance on the entire fleet, Northwest engineers believe they will get back the $72,000 analyzer bill in 9½ months through maintenance savings. Once the installation cost of the analyzers has been amortized, the airline counts on an annual saving of $65,000.

Don O Benson, NWA's manager of engineering, pointed out that because the Stratocruiser's 3,500-hp. engines each have 28 cylinders, seven magnetos and 56 spark plugs, it might be necessary to examine individually as many as 91 separate components in order to locate a minor engine malfunction Much of this work will be eliminated by installation of the Sperry analyzer

Moreover, NWA quotes CAA records as showing that from 20% to 50% of schedule flight delays are due to engine and engine accessory troubles; that 50% of these engine malfunctions are due to ignition difficulties, while a large portion of the remaining troubles are caused by mechanical components, such as valves. Many of these types of malfunctions NWA says, will be caught by the analyzer, either on the ground or in flight, while still incipient.

NWA flight engineers, maintenance men and other interested personnel will be given an extensive training course in the use of the instrument.

MN-85 — Fly OMNI RANGE with the world-famous Bendix NA-3 Navigation System of which the MN-85D receiver is the heart. Precision built to military standards, the MN-85D is a truly fine — ultra sensitive - extremely stable crystal controlled superheterodyne receiver. Used in conjunction with the Bendix OMNI-MAG indicator you can enjoy "picture window" flying in any weather

TA-18 — For clear, reliable communication every time, the new Bendix TA-18 airborne V. H. F. transmitter is the answer. Just select any of 180 V. H. F. channels with a dial calibrated directly in megacycles. No special skill is required to set the TA-18 on the nose, no dial twisting, no rocking back and forth — just set it on the desired channel and you will be "loud and clear" regularly. A full 25 watts of R. F. Power is available, crystal controlled on every channel.

Write now for detailed technical information on the Bendix TA-18 transmitter and NA-3 navigation system, a perfect pair for the latest and the best in V. H. F. communications and navigation

Whatever the Plane or Purpose . . .

Bendix Radio is the Choice

BENDIX RADIO DIVISION of Bendix AVIATION CORPORATION
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Export Sales: Bendix International Division, 72 Fifth Avenue, New York 11, New York
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COUNTLESS THOUSANDS

of aircraft have been built faster and better with 3H safety clamps

Since the beginning of World War II, 3H Safety Clamps and applying tools have proved their superiority in high speed sheet metal fabrication and other applications in the aircraft industry. Today 3H Safety Clamps are preferred many times over all others because of their advanced design, operational efficiency, safety and adaptability.

3H Safety Clamps are quickly and easily applied and removed, with maximum safety. They hold securely under all conditions and withstand considerable abuse.

The several basic types shown below are available in sizes to fit various size drill holes and thicknesses of material. Special clamps can be developed for your specific requirements. Write today for catalog.

MONOGRAM MFG. COMPANY

2204 Colorado St. • Santa Monica, Calif.

AVIATION CALENDAR

Oct. 2-4—Seventh annual aircraft spark plug and ignition conference sponsored by the Champion Spark Plug Co. of Toledo.

Oct. 3-6—Annual national aeronautical and engineering display and aircraft production forum, sponsored by Society of Automotive Engineers, Biltmore Hotel, Los Angeles.

Oct. 4—33d annual meeting of the American Ordnance Assn., Cincinntai, Ohio. Tour of Wright-Patterson AFB is included in meeting

Oct. 8-10—Sixth annual convention, National Defense Transportation Assn., Plaza Hotel, San Antonio, Tex.

Oct. 8-10—Special conference on aircraft electrical applications, sponsored by the air transportation committee of the American Institute of Electrical Engineers and the Los Angeles section of the Institute, Hollwood Roosevelt Hotel, Hollywood.

Oct. 9—Air transport section, National Safety Council, Palmer House, Chicago.

Oct. 11-12—1951 conference on airport management and operation, University of Oklahoma, Norman, Okla.

Oct. 13-14—Air fair at Los Angeles International Airport.

Oct. 15-18—Society for Non-Destructive Testing, eleventh annual meeting, with symposium on jet engine part inspection, Hotel Detroiter, Detroit.

Oct. 16-17—Fourth annual New York State conference on airport development and operations, sponsored by the N. Y. State Dept. of Commerce, N. Y. Aviation Trades Assn., Assn. of Towns of the State, Conference of Mayors, County Officers' Assn. and the N. Y. State Flying Farmers, Onondaga Hotel, Syracuse, N. Y.

Oct. 22-24—National Electronics Conference & Exhibition, Edgewater Beach Hotel, Chicago, Ill.

Oct. 29-30—Air Industry & Transport Assn. of Canada annual general meeting, Seigniory Club, Montebello, Quebec.

Oct. 29-31—National transportation meeting of Society of Automotive Engineers, Hotel Knickerbocker, Chicago.

Oct. 24-25—1951 annual convention of the National Assn. of State Aviation Officials, Arizona Inn, Tucson, Ariz.

Oct. 31-Nov. 1—Society of Automatic Engineers, fuels and lubricants meeting, Drake Hotel, Chicago.

Nov. 7—Annual Wings Club Dinner, Waldorf-Astoria, New York

Nov. 8-9—Seventh annual national conference on industrial hydraulics, sponsored by the graduate school of Illinois School of Technology and Armour Research Foundation, Sherman Hotel, Chicago.

Dec. 4-5—Transport aircraft hydraulic accessory and system conference, Hotel Sheraton, Detroit

PICTURE CREDITS

9—(Demon photos) McDonnell; (Helio Courier) Howard Levy; (Pipers) Piper; 14—McGraw-Hill World News; 15—Combine; 18—(Attacker) Keystone; (Hawker) Wide World; (Supermarine 508) McGraw-Hill World News; (SA-4) Keystone; 45—IATA.

bined speaker-amplifier units in the cockpits, one for each pilot. The units will give the crew greater comfort by eliminating need for head sets; the latter will still be carried in case of speaker-amplifier failure. Such failure will in no way affect operation of head phones.

The set being built in the airline's radio shops is completely self-contained, measures 8½ x 5 x 2¼ in; and weighs 2 lb.

It has a 2½w. undistorted power output and mounts a 5-in. Jensen speaker with a range of 250 to 6,000 cps.

► **Stretching Tire Life**—G. D. Bruegger, C&S engineer has found a way of drastically cutting tire replacement costs. He has reduced the cost of a DC-3 landing to 24 cents. Comparably cheap landings will soon be forthcoming on the Connies, he predicted.

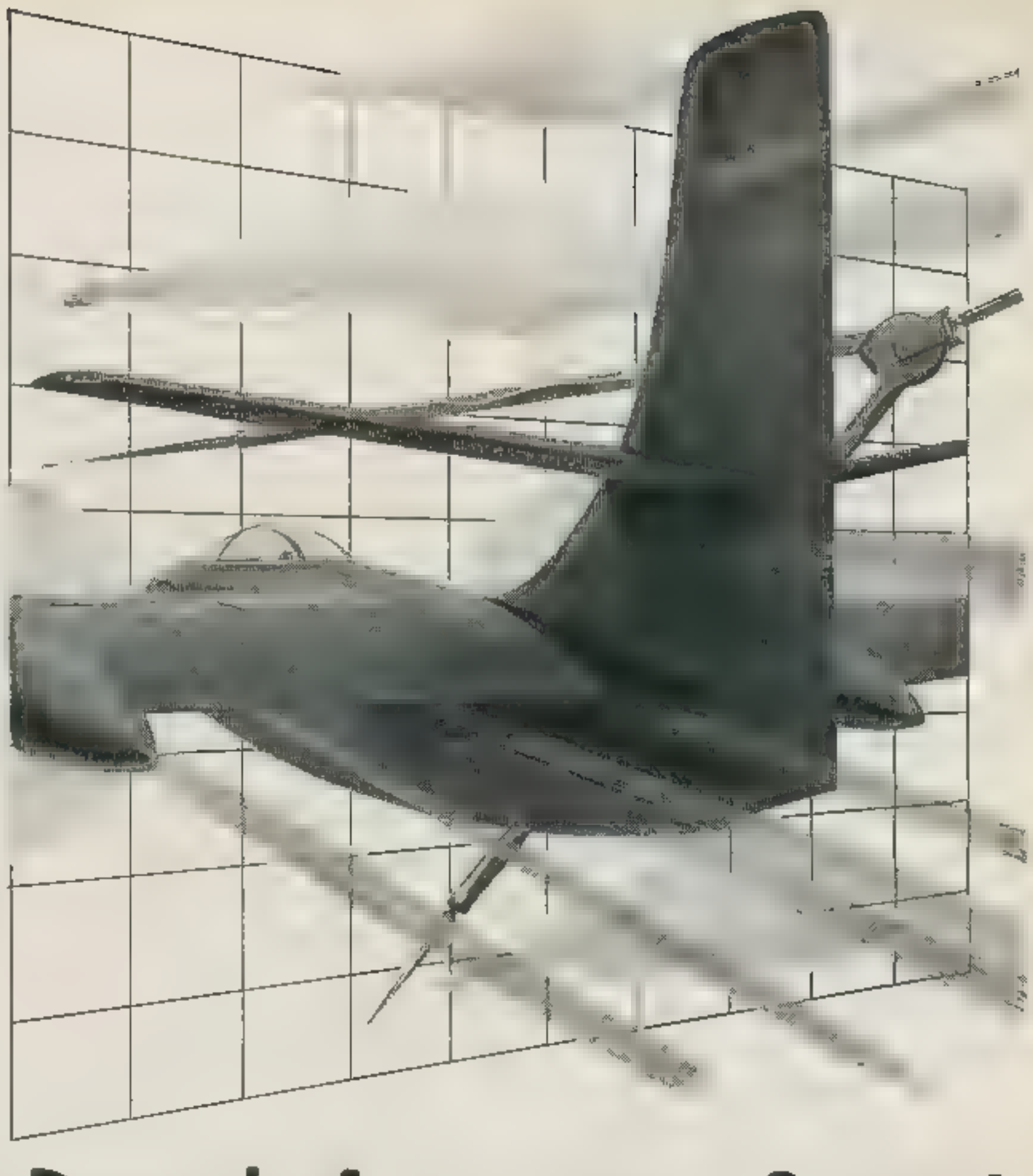
Theory behind Bruegger's scheme is that aircraft tires may be recapped several times before being junked, not just once or twice as most carriers do. Reason is that rolling mileage and calendar time on an aircraft tire are very small as compared to an automobile tire. Therefore, the strain imposed on the sidewalls of an aircraft tire, especially with rayon and nylon cord is relatively slight. C&S uses the Hawkinson method, which recaps only the crown of the tire, the part most subjected to wear. By recapping only the crown instead of bead-to-bead as in other processes, the sidewalls of the tire are not adversely affected by heat during the recapping process. This aids materially in keeping the sidewalls fresh and helps to prolong their life.

Bruegger said that C&S has gotten as many as seven recaps on DC-3 tires. It is interesting that there is no pattern of correlation between failures of new tires versus recaps. Actually, the airline says, it has never had a failure on a fifth or sixth recap tire. Nor has the airline established a maximum number of times a tire may be retreaded. When sufficiently worn, the tires are sent to the Shelly Tire Co. in Memphis. The tire is either recapped or rejected. In the latter instance, C&S is advised of the cause for rejection so that it may keep strict control over reasons for tire failure.

Maximum Connie tire retreads to date are three, but not enough time has been put on the planes to determine how high the number may go.

► **Tire Statistics**—Here are some statistics:

- Average tire tread life on DC-3s—785 landings.
- Average cost per landing, including purchase of new tires and cost of recaps—24 cents.
- Average tire tread life on Constellations—300 landings on main gear tires, 190 on shallow tread nose gear tires.
- Average cost per landing—$2.40.



Bristol Automatic Control

GUARDS AIRCRAFT SAFETY AND OPERATING EFFICIENCY

Leading aircraft manufacturers use Bristol Automatic Precision Control Equipment on fighter planes, bombers and transports.

Products of over 60 years of Bristol pioneering in the field of precision instruments, they have proved their merit under exhaustive flight tests in extreme climates and at high altitudes.

What are your instrument control requirements? Bristol's Aircraft Division is especially geared to design and produce aircraft control devices such as engine temperature controllers, timers, and other electronic and electro-mechanical control devices.

The Bristol Company is a leader in the development of instruments and devices for indicating, recording and automatically controlling temperature, pressure, flow and other fundamental quantities.

With aeronautical development proceeding at a rapid pace, Bristol engineering and production facilities are available to solve your aircraft control problems.

There are Bristol branch offices in 26 principal cities and Bristol factories in Chicago, San Francisco, Toronto and London. Address inquiries to The Bristol Company, Aircraft Equipment Div., at 130 Bristol Rd., Waterbury 20, Conn.

BRISTOL

FINE PRECISION INSTRUMENTS FOR OVER 60 YEARS

RESEARCH
DEVELOPMENT

brings even the stars within reach . . .

Tonight, if the weather is clear, a man may chart the course of a star 6,000,000,000,000,000,000,000 miles from the earth, through the giant telescope at Mt. Palomar . . . a far cry from the crude 35-power glass through which Galileo first studied the heavens, centuries ago. In much the same way, important progress in every field of human endeavor, has always depended upon *research-development.* And through *research-development,* Eclipse-Pioneer has consistently kept pace with the brief, meteoric history of aviation . . . has frequently actually anticipated the needs of the industry. Thus, many of the instruments and accessories now under development at Eclipse-Pioneer are planned for use on aircraft whose performance will far exceed that of even the latest of today's planes. Continuing this policy, Eclipse-Pioneer is also at work on the *research-development* of components for guided missiles. All of this is important to you . . . for when you specify Eclipse-Pioneer instruments and accessories for your planes, you can be certain that they are the first word in quality and the last word in design.

ECLIPSE-PIONEER DIVISION OF Bendix

TETERBORO, NEW JERSEY

Export Sales: Bendix International Division, 72 Fifth Avenue, New York 11, N. Y

Comet Readied for R-R Avon Engines

Engineering the installation of Rolls-Royce Avon engines for the de Havilland Comet has begun in earnest.

Objective is to give the Comet its full passenger- and load-carrying capacity over stage lengths of 3000 mi., and is not intended as a means of increasing the payload over shorter route lengths.

Prospective use of the Avon-Comet is on the London-New York run, but this is not likely to happen for about three years. De Havilland says that one Avon-engined Comet may be completed and flying in about one year. But delivery times are being quoted as three years.

There has been speculation lately about conversion of the Comet to a bomber. But the British feeling is that this compromise could only be justified by an immediate war. First, there are other jet bombers nearing completion which would be much better suited for the job and which could be built as quickly.

Second, the structural changes necessary for the Comet are major ones; the fuselage would have to be completely redesigned to replace the belly fuel tanks with bombs, and then the wing could not be incorporated into a new fuselage because of the method of wing attachment.

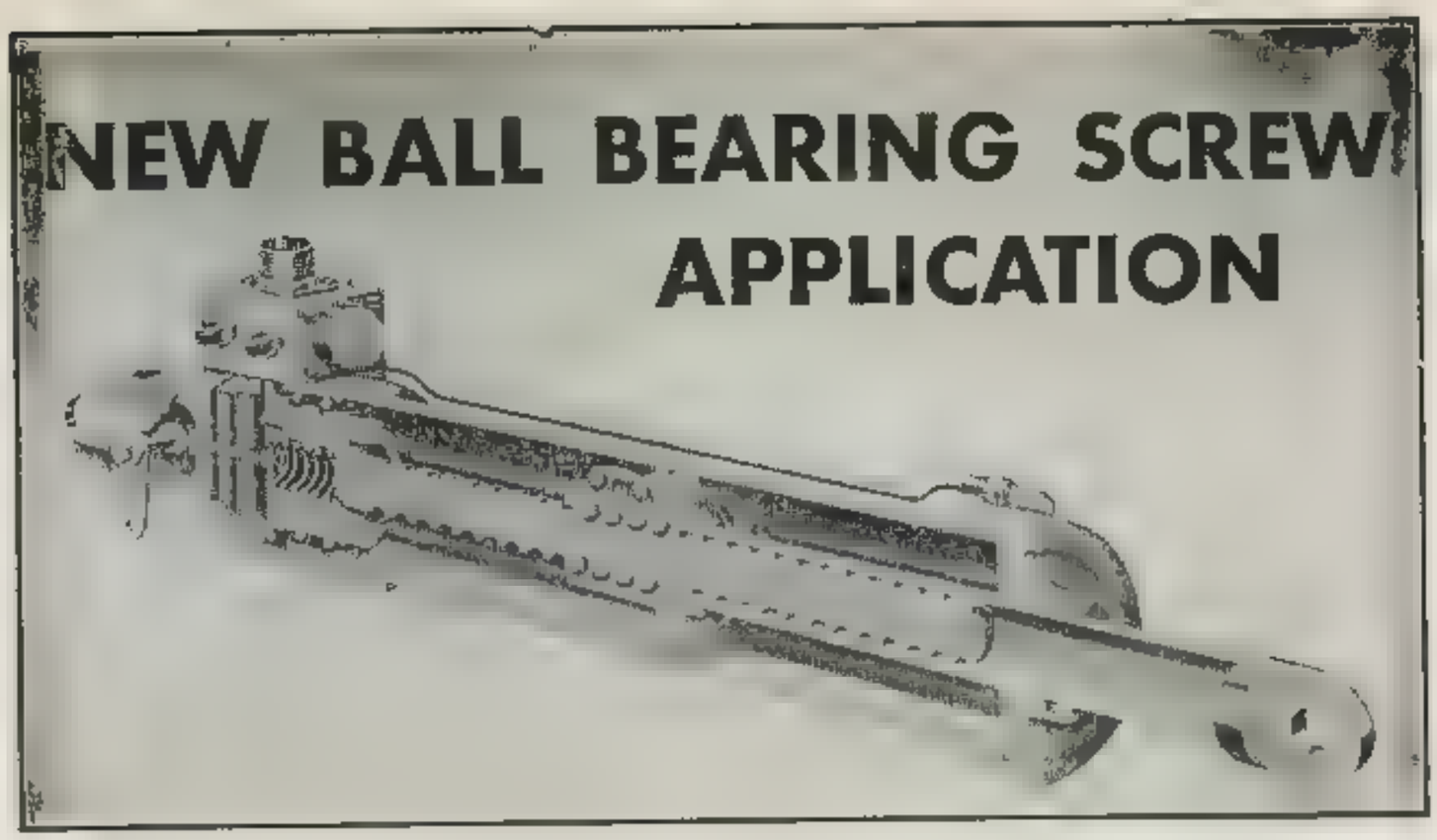
Engine Test Facility Nears Completion

Work is being pushed on the high-altitude engine test facility, first of the installations scheduled for operation at the Air Force's Arnold Engineering Development Center at Tullahoma, Tenn. Shakedown tests are slated for early next year.

This engine test unit will take full-size experimental turbojet and ramjet powerplants to a simulated 80,000-ft. level under flight speed conditions. Operational requirements will exceed 75,000 hp. and simultaneous runs in two test chambers will be possible. Testing capacity will exceed, by a considerable margin, that afforded by present equipment at Wright-Patterson AFB.

Electrical installations constitute a large part of the engine test facility. Conducted by Pittsburgh's Allegheny Industrial Electrical Co., the electrical contracting involves reconditioning, checking and installing German jet test equipment and USAF components.

Cost of the completed electrical installation, including that of the Air Force equipment, will be approximately $5 million.



New Aircraft Actuator Uses Saginaw Ball Nut Screw

This advanced, hydraulic aircraft actuator owes its efficiency and lightweight to its quick-acting Saginaw ball bearing screw and nut. It operates satisfactorily under extremely high loads . . . features emergency power drives and synchronization for two or more units. In the event of system failure, a mechanical brake locks the actuator. Stroke and thrust are limited only by available flow and pressures.

Numbers show electro-mechanical actuator installations on Banshee jet fighter for (1) main landing gear door, (2) main landing gear, (3) wing fold, and (4) nose landing gear. Operating loads run from 1800 lbs. to 14,000 lbs. Strokes range from 8.4 in. to 19.53 in. All installations use Saginaw's friction-free ball bearing screw and nut.

FRICTION-FREE PRINCIPLE NOW AVAILABLE FOR UNLIMITED USES

The friction-free operation of the Saginaw ball bearing screw and nut brings new efficiency to numberless industrial operations. In many cases actuating efficiency is increased more than 90 per cent, while operating costs are reduced as much as two-thirds.

The Saginaw ball bearing screw and nut makes possible the use of smaller motor drives with less horsepower. It permits faster operation with less heat generated, and allows rapid forward or reverse action with minimum wear and friction. Compact design for simple lubrication; remarkably low maintenance.

SAGINAW DESIGNS EACH APPLICATION TO SPECIAL ORDER

Each application is treated as an individual design; Saginaw makes no off-the-shelf sales. Manufacturing facilities are geared to meet any desired production rate — large or small — and deliveries are scheduled to meet customer requirements.

Saginaw puts 38 years of gear building experience behind every product it makes; has one of the largest and most highly trained staffs of engineering, designing and manufacturing gear specialists in the country.

INSTALLATIONS FOR BALL BEARING SCREWS COVER EVERY FIELD OF INDUSTRY

Present industries using the product include aircraft, machine tool, automotive, farm machinery, boat building. It is widely employed in truck trailers, adjustable beds, lifting jacks and countless other actuating devices. Complete engineering facilities are available to give prompt attention to customer problems.

Saginaw
STEERING GEAR DIVISION
General Motors Corporation, Saginaw, Michigan

SSG PRODUCTS
STEERING GEARS AND LINKAGES • PROPELLER SHAFTS • TRANSMISSION CONTROLS • TURN SIGNALS • DIESEL ENGINE PARTS • BALL BEARING SCREW AND NUT ASSEMBLIES • AUTOMOBILE JACKS

HYDRAULICS FOR MISSILES

Bendix-Pacific
Spherical Accumulator

FROM BENDIX-PACIFIC

Bendix-Pacific
Cylindrical Accumulators

GUIDED MISSILES NOW CONTROLLED BY POWER SUPPLIED BY BENDIX-PACIFIC HYDRAULIC ACCUMULATORS

Extensive research and development work has been undertaken by Bendix-Pacific to adapt hydraulic power to the control of missiles in flight. Already Bendix-Pacific standard hydraulic accumulators are being used in this work and Bendix-Pacific engineers are available to assist in other specialized applications.

As part of this program Bendix also has developed for the Air Forces an automatic hydraulic power unit which provides for repeated charging of the accumulator in flight.

In addition to supplying other hydraulic components Bendix-Pacific soon will be in production of electro-servo valves designed specifically for missile application.

Bendix-Pacific will be glad to discuss its developments in this field. Your inquiry is invited.

Pacific Division
Bendix Aviation Corporation

Bendix

East Coast Office: 475 Fifth Ave., New York 17 • Export Division: Bendix International, 72 Fifth Ave., New York 11 • Canadian Distrib.: Aviation Electric, Ltd., Montreal

WOBBLE TABLE is a test procedure to subject gyros to accelerated service conditions.

oped a control for cabin temperature. By means of sensitive, ultra-fast temperature measuring devices with anticipation built-in, the system mixes cold outside air and hot engine compressor air in the correct proportion and routes the mixture through the necessary intercoolers and mixing valves.

► **Research Contracts**—Honeywell has an imposing list of research projects underway, financed in about equal amounts by military funds and M-H money.

• The engineering section has just completed a study for the Office of Naval Research on automatic approach, landing and cruise control, and the system is slated for installation in the Douglas F4D, and the Grumman F7F and F6F.

• One of the most interesting studies now underway—and hardly more than named by Hugo Schuck, Honeywell's aero research head, because of security—is an automatic carrier landing system under cognizance by BuShips.

• AMC sponsors B-line, an evaluation of bomber performance. This is not the type of thing that leads to a production contract of hardware, but is only an evaluation by Honeywell systems and technicians.

• For the All-Weather Flying Division, Honeywell has been developing the automatic master sequence selector, which is the next step to the completely automatic airplane. This system is for a B-50, and features a punched card memory which actuates the computers of the airplane control system.

As examples of the kind of thing for which M-H is spending its own research funds, there are studies of aircraft dynamics, autopilots, automatic controls, hydraulics, electronics and magnetism Magnetic amplifiers are being developed, as are floating gyros, in which the gyro rotor is suspended in a liquid of density sufficient to float the rotor.

► **Impressions, First-Hand**—These research and development projects were outlined by Sigford and Schuck; in between the presentations, there was a trip of inspection through the M-H aeronautical building.

The office space is neat and open; color styling has been used throughout in excellent taste. By contrast, the shop areas for manufacturing and assembly seemed crowded and even dirty. Lab and test areas were open and clean.

A major portion of the new building is to be devoted to production of the Lear autopilot; this section is not yet occupied, but is currently being finished.

Probably the best impression one could obtain of the aero division was given jointly by Sigford and Schuck in their presentations.

Their talks, plus the demonstrations and charts prepared as graphical illustration of the job being done, underscored the quality of work at Honeywell's aero division. And that quality was emphasized by the workmanship of the components demonstrated.

Midget Relay

A midget relay, designed for airborne armed services applications, has been developed by the R-B-M Division of Essex Wire Corp., Logansport, Indiana.

The relay can be furnished with single pole, either normally open or normally closed; two-pole, normally open or normally closed; and single-pole, double-throw contact form. It can be made available in up to 4-pole, double-throw in standard contact arrangement.

Maximum rating is three amps. non-inductive at 28 v. dc. Maximum capacitance between contacts and to ground is 2½ micro-microfarads.

Further information may be obtained by writing the manufacturers.

FOR THE LATEST IN HEAT TRANSFER

From

✓ AIR TO AIR

✓ GAS TO AIR

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YOUNG

Keeping ahead of today's ever-changing picture, Young Aircraft Heat Transfer Service offers you proved engineering background, skilled workmanship, modern research laboratories, and the latest in manufacturing equipment and techniques. On heat transfer requirements, you'll find it pays to check with Young before you decide.

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Heat Transfer Products for Automotive and Industrial Applications.

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Heating, Cooling, and Air Conditioning Products for Home and Industry.

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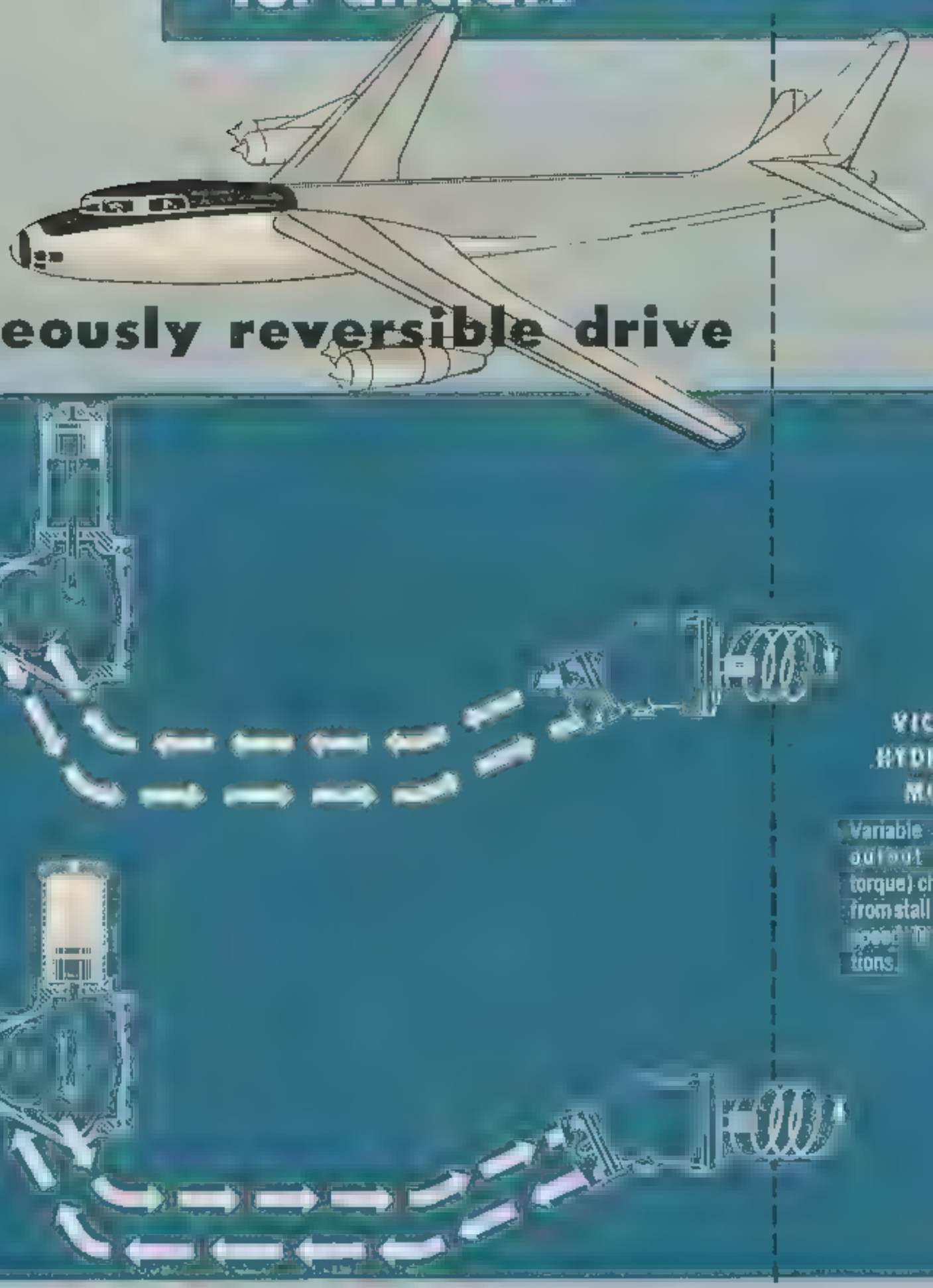
YOUNG RADIATOR COMPANY

Dept. 171-G RACINE, WISCONSIN

Plants at Racine, Wisconsin and Mattoon, Illinois

VICKERS hydraulic drives for aircraft



instantaneously reversible drive

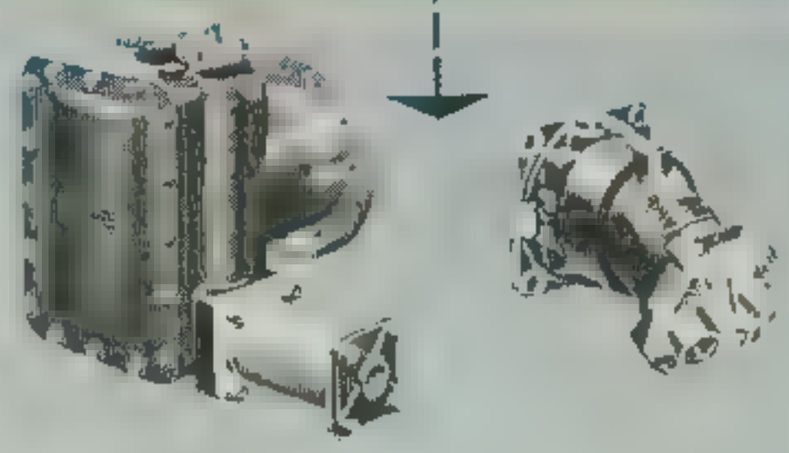
VICKERS HYDRAULIC PUMP

Two-way variable displacement pump regulates volume and reverses flow of circulating oil. Driven in one direction.

VICKERS HYDRAULIC MOTOR

Variable - horsepower output (constant torque) characteristics from stall to maximum speed in both directions.

Vickers Hydraulic Drives for aircraft have very high horsepower/weight ratios. They are infinitely variable and reversible without gear changes or clutch mechanisms, may have either manual or automatic speed controls, and are so sensitive that they can be actuated by a few milliamps of signal current. Response is extremely rapid and precise due to low inertia of axial piston design of both pumps and motors. Motors deliver full torque over entire speed range and there is no radio interference. Vickers Hydraulic Drives have a variety of applications including cabin compressors, gun turrets, control surfaces, etc.



Vickers
Variable Displacement
Piston Type Pump

Vickers
Constant Displacement
Piston Type Motor

NEW
WRITE FOR BULLETIN A-5200

VICKERS Incorporated
DIVISION OF THE SPERRY CORPORATION
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4535

ENGINEERS AND BUILDERS OF OIL HYDRAULIC EQUIPMENT SINCE 1921

Bendix Products Division

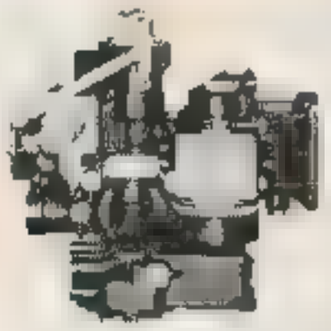
FIRST IN FUEL METERING

Helping American Aviation Lead the World

Aviation's remarkable progress during the past quarter of a century, together with the growing complexity of aircraft design, have created innumerable new problems in fuel metering and landing gear—many so challenging that only the great creative skill of Bendix Products has been equal to the task.

In meeting these many problems as they arise, Bendix Products has assembled the finest engineering talents and the most modern and comprehensive machinery in the industry—a fact reflected in the recognition of Bendix today as the nation's outstanding source for these vital flight components.

Engine builders and airframe manufacturers are urged to let this proven combination of skill and experience solve their fuel metering and landing gear problems.

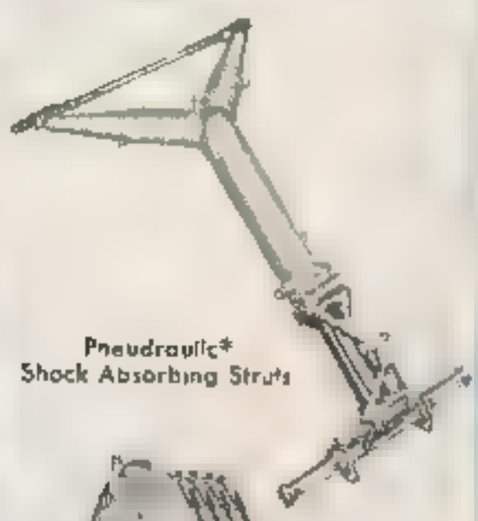


Fuel Metering Unit for jet engines

Stromberg® Injection Carburetors

Speed-Density Fuel Metering Unit

Landing Gear Wheels for all types of airplanes



Pneudraulic* Shock Absorbing Struts

Segmented Rotor Brakes

*REG. U. S. PAT. OFF.

BENDIX · PRODUCTS DIVISION · SOUTH BEND

Bendix AVIATION CORPORATION

Export Sales: Bendix International Division, 72 Fifth Avenue, New York 11, N. Y.

LEADER IN LANDING GEAR

Does a flame-out mean bail-out?
. . . Not Necessarily So! Especially if the engine is equipped with a dependable GLA ignition system. The Model ACD2-6 *high energy condenser discharge system*—specified for many of the latest air force aircraft—is typical of the many complete systems built by GLA. Their performance is uniform under varying conditions of operating environments.
We specialize in equipment which combines advanced electronic development with unique space and weight-saving design. Solving complex ignition problems and producing the equipment is our business—our Engineering Department invites your inquiry. May we hear from you?
GLA Model No. ACD2-6
GENERAL LABORATORY ASSOCIATES INC.
NORWICH, NEW YORK
GLA
AIRCRAFT AND ELECTRONIC PRODUCTS

week this month to Ketchikan, Juneau and Fairbanks, will continue this extra service through November if volume warrants.

• **Alaska Airlines,** which had to cease its Alaska passenger service while it overhauled its planes, has four C-46 transports on an all-freight service from Portland, Ore., and Seattle to Fairbanks and Anchorage. It hoped to resume passenger service before the end of this month.

• **Northwest Airlines** had a 30-000-lb. backlog at one time but ordered extra freighter flights to whittle it down. It has added a combination passenger-cargo flight to its Alaska schedule, increasing its Alaska-lift potential to 20,000 lb. a day on its regular flights. In addition, it is operating a DC-4 freighter daily to the territory.

• **Pacific Northern Airlines,** which recently inaugurated scheduled service to Anchorage, is carrying capacity freight loads in its passenger planes, would add extra sections if it had the equipment.

• **Air Transport Associates,** Seattle nonsked ordered out of business by CAB, sends one C-46 northward each night, reports it receives requests to handle from 20,000 to 25,000 lb. daily but can handle only 4,000.

Avianca's Claim: First in Freight

(McGraw-Hill World News)

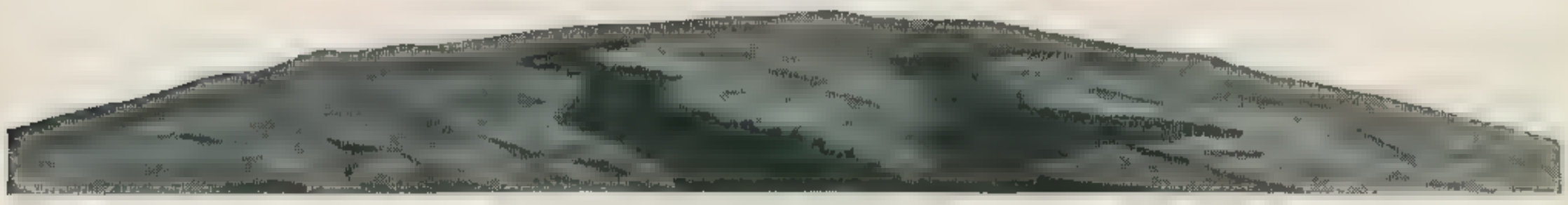
Bogota—Avianca, the Colombian carrier, repeats its claim to world leadership in the carriage of air freight and express, maintaining at the same time that it had not been surpassed on a volume basis by any schedule or nonschedule air carrier since December, 1949.

From Jan. 1 to June 30 of this year the carrier transported a total of 61,532,160 lb. of revenue cargo in scheduled operations, of which 95% moved over Avianca's domestic lines within Colombia. This gives a monthly average of over ten million pounds or a sustained daily average of 170 tons per day, an increase of 51% over the same period last year.

While cargo accounted for 53% of the total Avianca lift, revenue from cargo operations was less than 30% of gross income. Income from freight operations worked out at 28 cents per ton-mile.

Of Avianca's total fleet of 43 aircraft, 14 is employed exclusively in freight-operations. Included are two C-54s, five C-46s and seven C-47s. Each type of aircraft accounted for about the same tonnage during the period, with the two C-54s holding a slight lead: load factor on this type of aircraft for the six months was 91%.

TAKING MORE WEIGHT OFF THE "HORSES"



through

MAGNESIUM

How high, how fast and how far today's airplane flies depends on its "horses"—*and its weight!* Just increasing horsepower isn't enough . . . lowering the weight-to-horsepower ratio by decreasing the weight of the engine is just as important. The power plant of the modern aircraft contains less weight per horsepower than ever before. Weight has been taken off "horses" with magnesium, the world's lightest structural metal.

One type of turbo jet uses over 40 different magnesium castings, weighing from ¼ pound to over 100 pounds. It was only through the utilization of magnesium that the desired objective of minimum weight structure could be obtained.

In addition to lightness, magnesium is easily fabricated into all common forms . . . castings, forgings, extrusions, sheet and plate. These forms are readily machined, formed or otherwise worked by known methods.

A vital metal in our aircraft today, magnesium offers you tremendous opportunities in improving your product tomorrow. Keep your eye on magnesium if light weight is your aim.

THE DOW CHEMICAL COMPANY

Magnesium Department • Midland, Michigan

New York • Boston • Philadelphia • Washington • Atlanta • Cleveland • Detroit
Chicago • St. Louis • Houston • San Francisco • Los Angeles • Seattle
Dow Chemical of Canada, Limited, Toronto, Canada

navigation charts focus on a state or city or airport. Col. Kay has had to design the Pictorial Computer charts from scratch, using the OBD station as center point. This is because the Pictorial Computer apparatus takes its bearing and distance from the OBD station and reproduces the same coordinates on the chart scale

• **Letter printing.** Letter printing for these computer charts had to be designed and evaluated from new standpoints. First, the pilot will generally read these charts from farther away than standard folding charts; so lettering for greater eye distance is needed. Also, various letter sizes and styles are tried for proper relative emphasis of identity for station, danger area, city, bearing, altitude.

• **Black and white only.** These new charts are black and white—no color. Black and white gives maximum contrast, hence greater clarity and minimum chance of error; it is also much quicker and cheaper to print.

The Pictorial Computer charts will cost about 5 cents each, individually; they will cost about 2 cents in bulk. At 2 cents a shot, the pilot can afford to record his exact track on his chart on every trip, then file it or throw it away when he lands.

► **Other Models Coming**—Two other more complex computer models with somewhat different chart types will be delivered this year. The chart appearance will probably be similar, but the mechanics of presentation are different

Sperry Gyroscope Co. will deliver its development model of the Panel Pictorial Computer navigator in July. This model is somewhat more elaborate than the portable model delivered by Aero last week. The panel model is permanently mounted somewhere in the cockpit; it has a rotatable chart, so the pilot can fly "up" the chart at all times if he wishes. The charts for this are printed on sensitized paper; a heated stylus, moving underneath the chart, draws the plane's track.

Arma Corp. delivers the development model of a console model navigator in October. This has its chart reproduced on a paper screen by projection from 35-mm. film slides inside the console.

Land Agrees to Stay As ATA President

Air Transport Assn. President Emory S. Land says he will stay on in that job, as asked by ATA's board of directors.

He had submitted his resignation for the end of this year. But with executive Vice President Robert Ramspeck absent as Civil Service Commissioner during the national emergency, ATA has special need for Land to stay on as president, the directors say.

Filling in for Ramspeck in his absence will be ATA General Counsel Stuart Tipton.

The HEART* of the Rocket Engine!

Model No. MV-30

* Marotta Engineering Company was called upon by the pioneers in the rocket and guided missile field to develop precision control valves.

After many years of work with these firms, a line of valves was developed which met their stringent requirements. These valves, which proved themselves in their particular applications, are now available for general use.

In addition, through continuous development, special applications are being satisfied and the efficiency of our valves is constantly being improved.

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Backed by experience gained from two world wars and close cooperation with government agencies between wars, Glidden can:

- Supply finishes to meet practically all government specifications.
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- Assist in adjusting finishes where necessary to meet individual production requirements.

However, through this period of increasing production for defense, the Glidden organization is not in any way reducing its services to civil aviation, which has a well-recognized position of importance in this national emergency.

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Wilson's planning and operating set-up takes over. The NSRB Air Transport Mobilization Survey, a joint civil-military-industry project of which Delos Rentzel is chairman has almost finished its work, and the new mobilization office described above take over transport mobilization and planning.

► **Civil-Military Coordination**—President Truman gave Wilson's Office of Defense Mobilization (ODM) control of national mobilization. As far as the national mobilization economy goes, Wilson is top man. But both ODM and Defense work together to get the most out of the country's mobilization potential. Both report to the President.

Thus, Rentzel's Committee on Defense Transportation and Storage and the Air Force cooperate to see that civil air mobilization meets military requirements to the fullest extent possible without hurting the total national effort by hamstringing civil air transport at the same time.

In the Air Coordinating Committee, top government air policy makers meet regularly to keep industry, civil government, and military air policy coordinated.

Equipment production—New transport equipment is allocated and given priority by another chain of mobilization offices. The Defense Production Administration does the detailed planning of materials and equipment output expansion and allocation. Then, reporting to DPA but governed by the Commerce Department, is the National Production Authority, which operates the plans initiated by DPA.

► **The Triumvirate**—The Rentzel-to-Nyrop-to-Horne combination, which is taking over the three key air government posts, is a close-knit triumvirate. It is understood that Rentzel picked Nyrop to succeed him when he moved from CAA Administrator to CAB Chairman, and again urged Nyrop's appointment to succeed him at CAB. Rentzel is also credited with backing Horne to follow Nyrop at CAA.

• **Nyrop** came to CAA as Rentzel's assistant shortly after Rentzel became Administrator, in August 1948, from Air Transport Assn. Nyrop had been international operations officer at ATA. He later was named Deputy Administrator in 1949, and Administrator in 1950. He is a law graduate of George Washington University, and a graduate of Deane College in Nebraska, his native state.

• **Horne** was appointed Director of the CAA Federal Airways Office, in 1949, after serving as special assistant to Rentzel. His new assignment indicates that more and more emphasis in CAA is going on radio communications, navigational aids and instrument landing systems.

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Manufacturers like Boeing find Aerotec Pressure Switches built to exacting specifications for aircraft such as the B47 Stratojet, where performance qualifications are most demanding.

Now in production, Aerotec M-818 is vibration resistant up to 500 cps with 10 g's acceleration. It is capable of withstanding surge pressure of 120 psi., without change in setting. Rated for 28 volts DC, 3 amperes inductive, up to 45,000 feet.

All M800 series Aerotec switches are available for use with nitric acid, liquid oxygen, water, alcohol, octane and hydraulic fluids.

Thermix representatives, chosen for their engineering background and years of experience in the aircraft industry are ready to serve you and would welcome your inquiries.

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or the torque higher than these figures:
- **Rpm:** 1400
- **Discharge Pressure:** 3000 psi.
- **Inlet suction:** 12 in; Hg.
- **Minimum capacity:** 2.25 gpm.
- **Maximum torque:** 29 ft./lb.

PAA Orders Safety Seats for DC-6Bs

Special safety seats have been ordered by Pan American World Airways for installation in the 18 DC-6Bs now under order at Douglas.

The seats, which may be reclined to the sleeperette position, incorporate these features

- **Stressed** to withstand loads up to 10Gs.
- **Shock-absorbing** sheet-metal crash plate, shaped to body contour, is built into the back of each seat.
- **New method of installation** on tracks will make it possible to convert plane's seating capacity in a few hours for deluxe sleeperette, standard flight or low-cost tourist run.
- **Cushioning** will be foam rubber, covered with nylon fabric

Designed by the Thermix Corp., Greenwich, Conn., to PAA's specifications, the seats will be manufactured by Aerotherm Corp., Banton, Conn.

Kidde Truck Has Many Fire Weapons

A new fire-fighting crash truck capable of squirting out two tons of combined extinguishing agents a minute was recently demonstrated by Walter Kidde & Co., Belleville, N. J.

The truck carries extinguishing systems to deliver water, foam, fog and carbon dioxide. Water capacity is 1000 gal. CO_2 is carried in 12 100-lb. cylinders relayed in two banks of six each. A large foam tank also is provided.

A 360-deg.-swing turret nozzle above the cab delivers a 150-ft. stream of water, foam or fog. Two 150-ft. reels on the upper deck deliver foam or water, two others CO_2.

A transfer valve controlling delivery of an engine-driven 500-gal. pump converts delivery from parallel to series, giving large volume at normal pressure or half the volume at double the pressure. Pumping system permits water to be drawn from outside sources.

Optional auxiliary equipment includes an emergency 1500-watt portable generator for two 500-watt searchlights; one 20-ft. extension and one 12-ft. hook ladder; a 150-ft. ½-in. CO_2 booster hose reel; a 100-ft. ¾-in. water booster hose reel; two pike poles, hand axes, crow bar, assorted nozzles and applicators.

Powered by a 162-hp. engine, the

truck can speed up to 50 mph. Length is 25 ft. 6 in., width 8 ft., height 10½ ft. and weight 30,000 lb.

Kidde says that their Fire Destroyer, classified as a Class A municipal pumper, is "the first crash truck built, at the sole expense of a manufacturer, in accordance with recommendations of the National Fire Protection Assn. Committee on Aviation and Airports."

Cabin Leak Tester

A new, portable cabin leakage tester for fighter-type aircraft has been put into production according to the manufacturer, Sprague Engineering & Sales, 1144 West 135 Street, Gardena, Calif.

Labeled Model S-414, the unit measures 24 x 24 x 12 in. and weighs less than 100 lb. It contains all controls, instruments and accessories necessary to test pressurized cockpits. Capacity is 200 cfm. of free air, at pressures ranging from 2.5 to 10 psi.

Tester is designed to be used with plant air. If unavailable, same unit can be furnished with gas engine or electric motor-driven blower forming a complete power package.

Higher capacity testers for larger aircraft are available in the Model S-122, S-237 and other units according to Sprague

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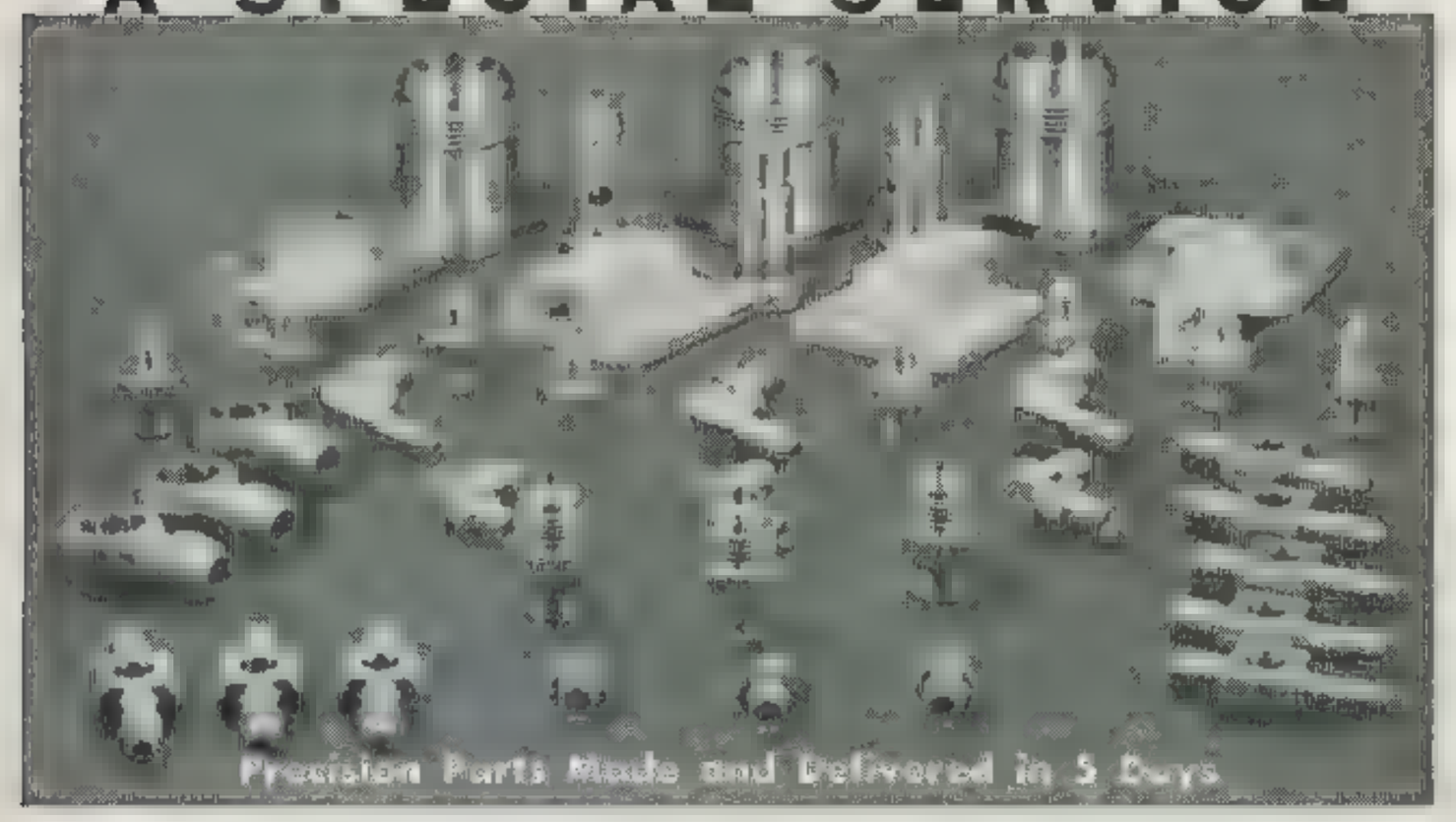

AVICA is equipped to produce out of the ordinary special fittings in small quantities promptly and economically. Special thread fittings and forged or cast parts duplicated and finished from solid stock — parts for fuel, pneumatic and hydraulic systems — fittings for mock-up and experimental installations — all orders furnished with material certifications acceptable to the services.

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TETERBORO, NEW JERSEY

Export Sales: Bendix International Division, 72 Fifth Avenue, New York 11, New York

Welding and Engineering, South Gate, Calif., directed the design of the pressure sphere and its fabrication process

Six 3.687 x 38 x 38-in. stainless steel plates were supplied by Allegheny-Ludlum, which rolled them as a special lot from 347 ASTM-A240 grade C stock.

To form the plates to a 22.500-in radius, National Supply Co. prepared a special die and punch, pressing the stock after preheating it to 1700 F.

► **Segments Fitted**—Research Welding and Engineering then laid out the plates to permit trimming and beveling in the same operation. Trimming was done by Jorgensen Steel Co. with flame cutting equipment. A heavy duty grinder removed slag and residue from the trimming operation. Parts were pickled to avoid contamination

The sphere segments were fitted and held together temporarily with thin backing plates. Research specified the welding procedure.

► **Welding, Inspection**—First passes were made by the heliarc method. The weld was inspected with gamma ray and Dy-Chek methods. The latter, developed by a Northrop Aircraft, Inc. subsidiary, employs a red dye surface penetrant and white developer to show up minute flaws (AVIATION WEEK July 17, 1950).

In the next step, the joints were filled by multiple pass arc welding. Gamma ray and Dy-Chek inspections were repeated several times as the welds were built up.

General Electric type 1347, 3/16-in. coated electrode metallic arc rod was used. Almost a ton of weld rod was consumed for the job.

► **Final Steps**—Another operation was heat treat for fully annealed condition. The sphere was brought to 1950 F. for 3½ hr., then subjected to quenching both inside and outside with jets.

Hydrostatic test proved the sphere at 10,000 psi. in Research's facilities. Then came a final examination with gamma ray and Dy-Chek.

Where to Locate V-Type Antennas

A recent report gives the best location for the V-type radio antenna on most small planes. It was found to be over the forward part of the cabin, according to a study made for CAA on nine planes by Electronics Research, Inc., Evansville, Ind. Unshielded ignition was the worst offender in producing disturbances. The complete report—VHF Radio, VHF Omnirange Radio Installation and Noise Reduction Techniques—can be had by writing the Office of Aviation Information, CAA, Washington 25, D. C.

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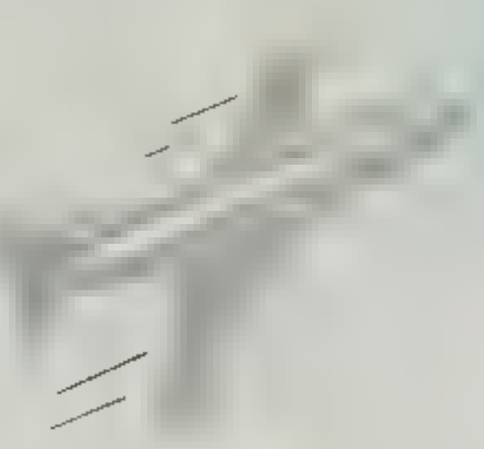
...and lightweight, too! That's why the facilities at GLA are working at capacity to deliver electronic components for critically needed jet planes. For example, the ACD2-6 *high energy condenser discharge ignition system* on the famous Grumman F9F Panther combines GLA's unique design with reliable performance.

Solving complex ignition problems and producing the equipment is our business. Our engineering department invites your inquiry. May we hear from you?



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Here's why those in the know

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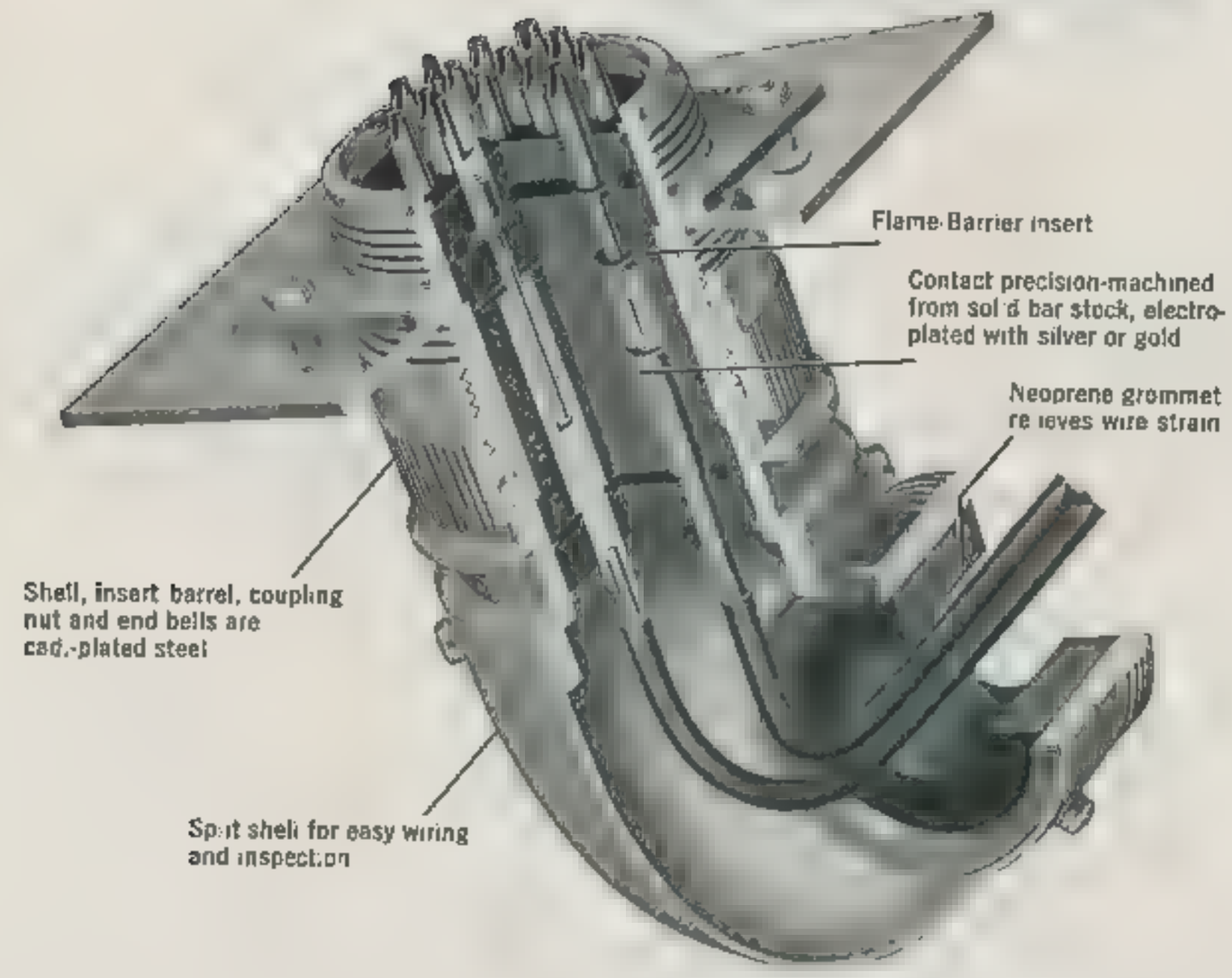
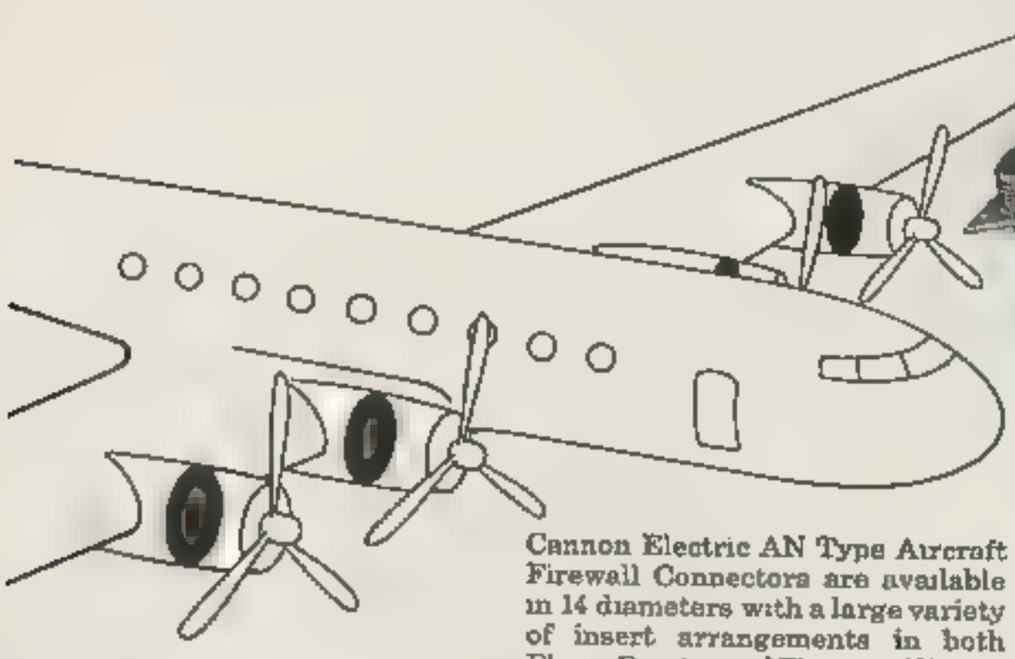

Flame-Barrier insert
Contact precision-machined from solid bar stock, electro-plated with silver or gold
Neoprene grommet relieves wire strain
Shell, insert barrel, coupling nut and end bells are cad.-plated steel
Split shell for easy wiring and inspection

Here is another example of the care Cannon Electric takes in developing a connector for specialized use. This is the Firewall Connector to prevent the spread of a possible aircraft engine fire through the bulkhead into wing sections.

Illustration shows Flame Barrier type with phenolic insert and contacts having solder cups. Shell must resist an open flame of 2000° F for 20 minutes. Electric circuits not required to remain active

The Fireproof continuous service type is similar in appearance, but has crimp-on type contacts in fireproof insert material. Must carry rated DC current under open flame of 2000° F for five minutes and withstand vibration of ¼" double amplitude at 2000 cycles per minute. Designed for aircraft, this connector has other applications where the going is tough. *For further information request Cannon Electric Firewall Bulletin.*



Cannon Electric AN Type Aircraft Firewall Connectors are available in 14 diameters with a large variety of insert arrangements in both Flame Barrier and Fireproof Types.

CANNON ELECTRIC

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Skydrol Properties—Physical and Chemical

Appearance—Clear, transparent oily liquid.
Color—Light green.
Specific gravity @ 32F—1.0980.
@ 176F—1.0345.
@ 248F—1.0031
Weight per gallon @ 32F—9.14 lb.
@ 248F—8.36 lb.
Acidity (Mg. KOH/Gm.)—0.18
Boiling point @ 760 mm Hg.—709F (Calculated).
Flammability—Does not support combustion (Exceeds requirements of AMS-3150)
Pour point—Minus 70F
Autogenous ignition temperature—1050F.
Thermal conductivity—477 Btu/hr/ft²/ft/deg. F
Viscosity
@ —40F—Less than 7,000 centistokes.
@ —30F—2,250 centistokes, 10,420 SSU.
@ 100F—15 centistokes, 77.2 SSU.
@ 210F—3.85 centistokes, 38.9 SSU.
Viscosity index—160.
Modulus of compressibility—328,000 psi.
Solubility—0.003% in water; 0.25% water in.

Miscellaneous Data

Shell Four Ball Wear Tests
(1 hour @ 167F and 600 rpm.)
Steel on Steel —40-kg. load, scar dia., 0.54 mm
Steel on Bronze—40-kg. load, scar dia., 1.12 mm

Paints

Skydrol resistant paint is available from Arco Co. Los Angeles; Sherwin-Williams Co., Los Angeles.

Packings and Gaskets

A. "O" Rings
E. F. Houghton and Co., Type 10V70–111
Kirkhill Rubber, Type X-682
Linear, Inc., Type PR-70
Plastic & Rubber Products of Dayton, Dayton, Ohio, Type 903–70
Plastic & Rubber Products of Los Angeles, Los Angeles, Calif., Type TC-315a
Above to be used with standard Douglas back-up ring S-4244380 or equal.

B. Chevron Packings
E. F. Houghton and Co., Type 10V–85–94
Kirkhill Rubber, Type X-682
Linear, Inc., Type PS-85V
Plastic & Rubber Products of Los Angeles, Los Angeles, Calif., Type TC-315a
Above to be used with back-up chevron molded from du Pont nylon, compound FE-2015 or JM-6339B or elements impregnated with E. F. Houghton and Co compound #1243 if the system operates at 1500 PSI or less, and the operation is not too severe.

---

qualities, is Skydrol's greatly improved lubricity. Douglas reported at the recent Air Transport Assn.'s Engineering and Maintenance Conference at Chicago that, after 250,000 unit flight hours, the DC-6 cabin supercharger units have been operating very satisfactorily on Skydrol. Particularly, steel-to-bronze wear was considerably reduced. It indicated that replacement of Vickers pump rotating assemblies using Skydrol have been only 1/6 to 1/10 the number using other fluids (AVIATION WEEK May 7, p. 15).

That Skydrol does what it was intended to do was underlined by Douglas' statement that "there have been two instances in our flight test operations where hydraulic fittings have loosened during braking tests which have resulted in spraying Skydrol onto the white-hot surfaces of exposed discs. Brake fires have been avoided, since only momentary flashes were observed."

Autogenous ignition point of Skydroll is 1050F. This compares to 750F for the Aircraft Industries Assn. reference fluid HS-1 and about 500F for

LONGEST WEARING RETREADS USED ON MODERN AIRCRAFT

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DOUGLAS DC-6

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MARTIN 202

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A safe casing can be retreaded repeatedly. Thompson *Extra-Landings* Retreads are the product of years of specialized experience in developing safe and superior retreading for all aircraft. Each tread is built with precision workmanship and each tire is balanced perfectly.

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(Continued from p. 48)

is mounted ahead of the plane's nose and linked to the ailerons to give automatic correction as the gust is entered.

The probe is an electro-manometric transducer which detects vertical components of gust pressures, known as gust signals. Difference for signal demand for aileron, and the then actual aileron position is amplified and converted into mechanical displacement. This is fed to an electro-hydraulic power control unit and superimposes the required gust correction on the ailerons, independently of control exercised by the pilot.

For maximum effect, aileron correction must be applied as the gust acts on the wing; hence, there must be a time lag between detection by the transducer and aileron operation. This lag—of the order of 0.1 sec.—is a function of detector-wing separation and airplane speed.

While an automatic transmission delay correction to compensate for variations in airspeed probably will be fitted in future developments, in the experimental installation, transmission time of the entire system can be varied with respect to dynamic pressure to permit study under all conditions of speed and transmission delay.

Reports are that the air trials with this gust alleviator have produced satisfactory results.

Engineering Group Gloomy Over Supply

The total number of engineers of all kinds available to industry this year is about 19,000. The minimum need has been estimated at 30,000. And the situation will become more critical during the next three years.

These appalling facts are the sum and substance of a recent release from the Engineering Manpower Commission of the Engineers Joint Council.

The Commission queried 135 engineering colleges which are accredited by the Engineers Council for Professional Development, and on the basis of a 64 percent return to the questionnaire, drew these conclusions:

- **The total number** of engineering graduates this year is about 38,000.
- **The number to be commissioned** in the armed forces or reserves is about 4,200.
- **The number who are enlisted** members of reserve or National Guard is about 6,100.
- **The number of draft eligibles** is about 13,700.

In adjusting these totals to reflect the numbers who will actually be called into active duty or drafted, the Commission stated that:

- **All of the graduates** who are to be commissioned as a result of ROTC training and about half of those who are enlisted members of the reserves or guard units will be called to active duty promptly.
- **The percentage of 4Fs** will reduce the number of draft eligibles only slightly, to a total of about 11,800.
- **If Selective Service System** inducts the draft eligibles, and there are indications that every effort to do so will be made, there will be a total of only about half of this year's graduating class available.

Thus, the total number of engineering graduates which can be counted on as available to industry this year does not exceed 19,000.

This may not come as news to the personnel directors throughout the country who have been making desperate efforts to corral the current engineering talent. Nor will it be any solace to them to find that this year's group is smaller than previously hoped. And adding the final stroke is the statement by the Commission that a previous survey showed that 25 percent of the engineers now employed in industry are enrolled in the reserves, and that some of these men will be lost to the services.

An earlier study made by AVIATION

Just a small flow-detector tab below the leading edge, yet this vane gives any airplane better landing, flight, and maneuvering characteristics, regardless of size or weight. It's part of the stall sensing unit of the Safe Flight pre-stall instrumentation system.

Regardless of load, speed, acceleration, or flap position, this detector gives infallible pre-stall warning at a precisely determined margin. It actuates the Safe Flight control shaking device which perfectly simulates natural buffeting so difficult to achieve in modern, rigid, high-speed aircraft. Equally important, it helps the pilot obtain maximum performance by supplementing his perceptive skill in the region of $C_{L(max)}$.

Why not let our engineering staff discuss what stall instrumentation can do to improve your designs? Your inquiry will be welcomed.

SAFE FLIGHT SYSTEMS ARE INSTALLED ON THESE AIRCRAFT

TRANSPORT Convair 240
Douglas Super DC 3 Northrop C-125

CIVILIAN Aeronca (all models)
Beech 18, 35 Cessna (all models)
Piper (all models)

TACTICAL AIRCRAFT
Chance Vought F7U series
Douglas AD-3W series, F3D series
Grumman (all models)
McDonnell F2H series
Northrop F89, YRB-49 series

SAFE FLIGHT INSTRUMENT CORPORATION
White Plains, New York
PIONEERS IN STALL INSTRUMENTATION

1946 to get their reaction on the use of optics for fixture alignment.

Reports are that interest generally varied from negative to indifferent. The fundamental instruments didn't appeal to the industry at large on the basis of methods used by the British, which rendered their application particularly sensitive to tilt (angular error) and required very accurate adapaters and exceedingly rigid fixture structure.

► **Republic Interested**—However, Republic tooling engineers showed an immediate interest and the company went ahead with its own preliminary planning to determine what could be done to adapt the basic instruments for efficient fixture alignment. Republic obtained an initial small exploratory AF contract in February, 1947. This investigation showed the shortcomings of the system as previously used and also revealed what improvements were possible.

Then followed an industry-wide meeting at Republic in March, 1948, for a general discussion of the application of optics, and the airframe builders—particularly Boeing's toolers—evidenced their interest.

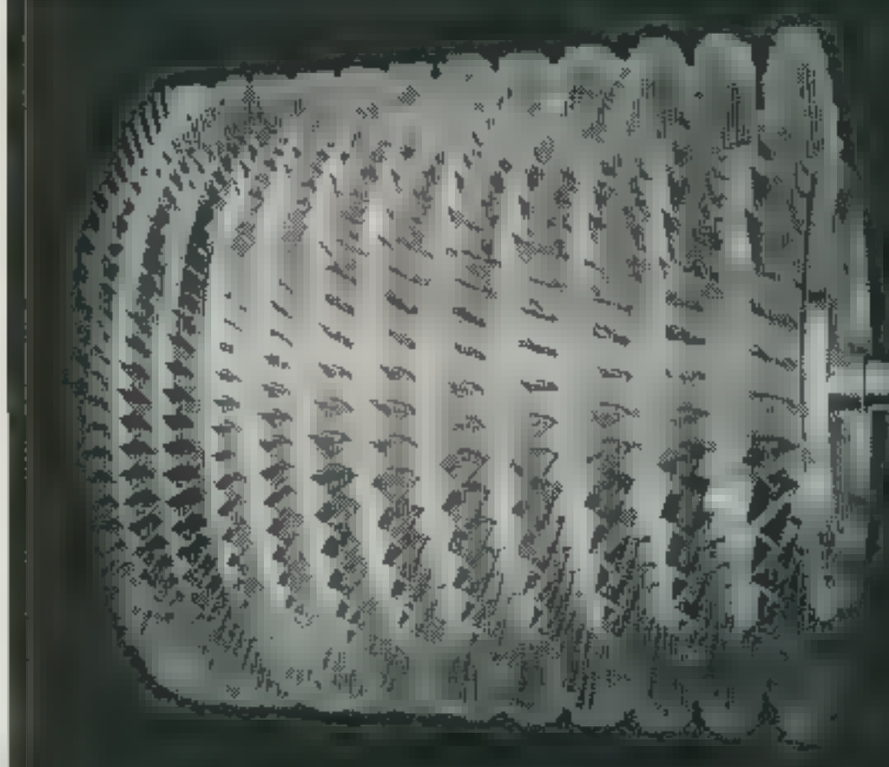
► **Accessories Developed**—From this point, Republic's tooling expert, Adolph Kastelowitz, and his associates, started research on and development of the accessories needed to make practical the use of optics for fixture alignment. Out of this work came the spherical mounts for alignment of the British Taylor-Hobson telescope and target reticle; optical positioner for mounting the collimator, optical square, fixture fitting adapter plate and fitting to locate points in relation to the established line of sight; adjustable brackets, and other devices. These developments were demontrated at an AF-sponsored industry meeting at Boeing's Wichita plant in June, 1949.

► **Enter Castings**—Meanwhile, Freed was pursuing further the simplification of fixture construction. Working with him at AMC was August Bringewald, German-trained production engineer, who now is Republic's chief of manufacturing research and development.

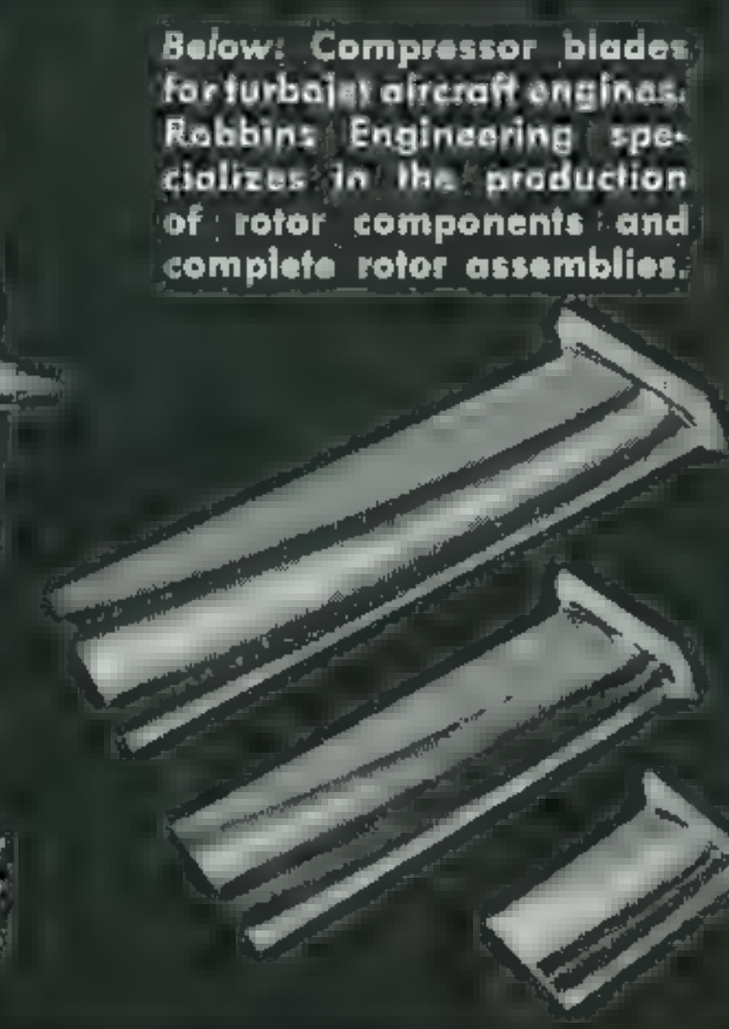
Freed had heard of the standard German castings and Bringewald was familiar with their use in Germany's airframe production. Bringewald made sketches of the units, made a ⅛-scale model of a fixture using them to facilitate study. After this, he and Freed went to Germany in 1947 to collect available data and castings. Forty tons of the structural units were shipped to this country from Messerschmitt's tool plant in Kematen and the main assembly site in Augsburg.

► **Second Contract Awarded**—Republic's technicians saw the advantages of combining the optics with the structural castings in fixture work. As a result of the company's optical tooling develop-

Jet Compressor Parts



Above: Complete rotor assembly for turbojet engine, manufactured by the Robbins Engineering Company.



Below: Compressor blades for turbojet aircraft engines. Robbins Engineering specializes in the production of rotor components and complete rotor assemblies.

Machined and Assembled to Rigid Specifications

The machining of jet compressor parts and the assembly of complete rotor units require an organization having specialized tooling and inspection equipment and plenty of aircraft know-how. Turbojet engine builders are enthusiastic about the work of the Robbins Engineering Company, a subsidiary of Ex-Cell-O Corporation.

The Robbins organization is cooperating whole-heartedly with the program to build up air power for the defense of our country. All its efforts will be directed toward this end in the present emergency.

ROBBINS ENGINEERING COMPANY
Subsidiary of
EX-CELL-O CORPORATION
DETROIT 32, MICHIGAN

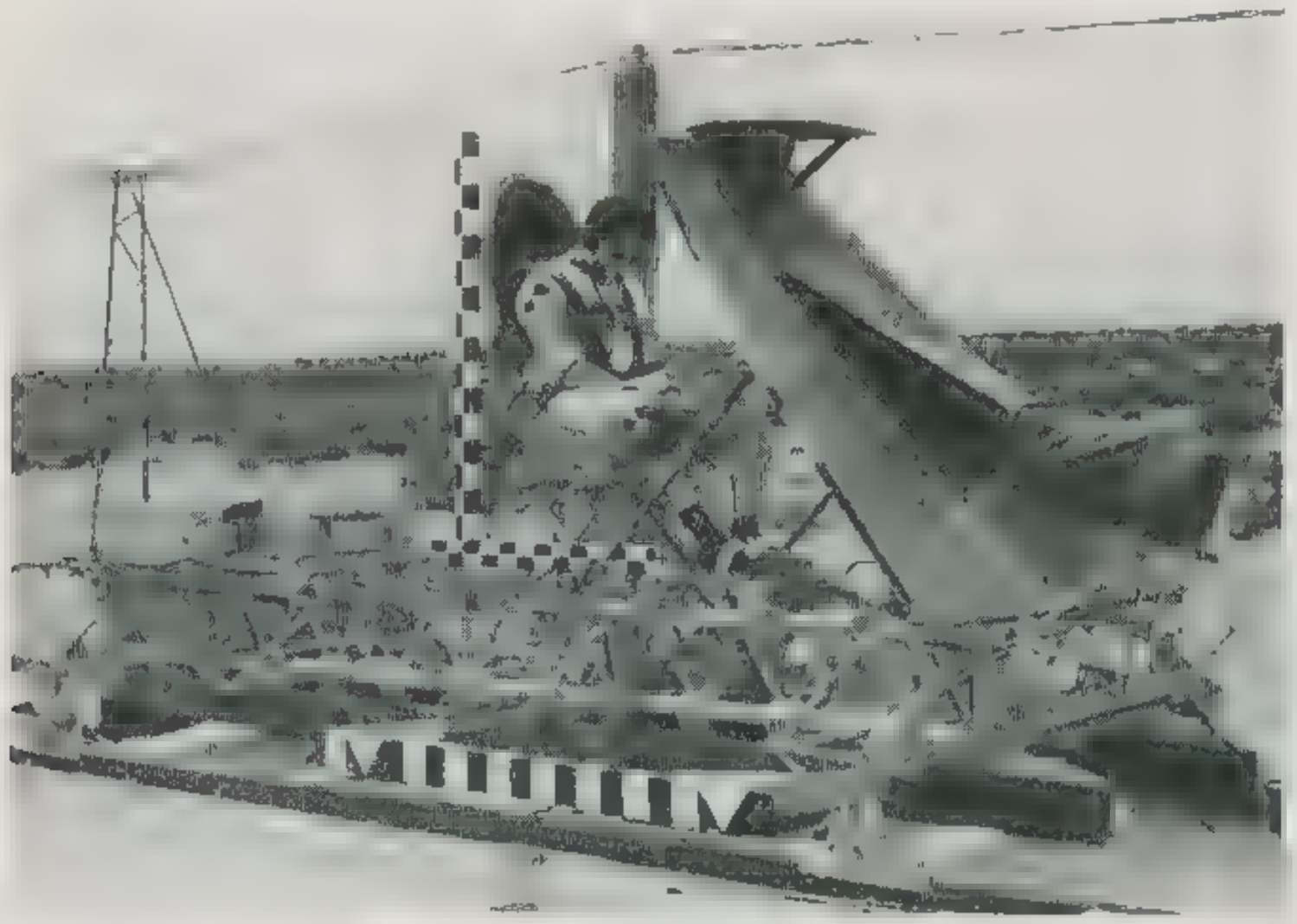
51 20

ried out by General Electric's Carboloy department at the Metals Congress, was only one of a number of other developments told about publicly for the first time. A related area was that of titanium carbide, aimed at ultra-high temperature operating conditions—a development still in laboratory stage.

Of nearer application are Carboloy's new "thermistors" — temperature-sensitive resistors. Their electrical resistance sharply decreases with rises in temperature. Applications are indicated as the sensitive elements in flow meters, liquid level indicators and controls, voltage regulators, vacuum gages, switching devices, etc. Temperature control as fine as 1/1000th of a degree is claimed possible for these small instruments.

►**Flowable Carbide**—Just coming out of the laboratory into the engineering appraisal stage is a "weldable" tungsten carbide—a metal that can be flowed onto metal surfaces with orthodox shielded arc welding equipment.

The Detroit manufacture expects this innovation to make possible the coating of metal parts with a relatively thin skin, or case, of tungsten carbide. When flowed onto steel it fuses and blends with the base metal, resulting in a surface coating with about 70% of tungsten carbide. This surface is figured as having a wear-resistant ability about 80% that of straight tungsten carbide.



8,000-lb. Load No Bother to Him

Decelerating at 45Gs didn't particularly bother Major John Paul Stapp—and that's the same as loading 8,000 lb. on him. He didn't black out on any of his rides on the rocket-propelled sled at Edwards AFB, Calif., nor did he lose the ability to move his limbs, or to see or hear.

Major Stapp, who is an aero medical scientist at the Wright Air Development Center of Air Research and Development Command, recently conducted a series of deceleration tests with himself as the subject.

In the interests of pilot safety, Major Stapp rode the rocket sled to check human resistance to extremely high, short-duration decelerations, and to prove the ability of a new restraining harness for pilots.

Last week he was presented the Air Force award of the National Research Council for this work.

The rocket sled runs on a 2,000-ft. track and is propelled by three 1,000-lb.-thrust rockets. Within 500 ft. the sled reaches a speed of 170 mph. It then coasts to 154 mph., and is braked down to35 mph. in 31 ft. and about one-fifth of a second.

This is a deceleration rate of 493G per sec., and is comparable to slowing an airplane from 120 mph. to a dead stop in 19 ft.

The new harness tested by Maj. Stapp is a modification of the current AF type.

Two shoulder straps center on the buckle of a lap strap and an inverted V-shaped leg strap. Design of the harness distributes pressure evenly over the solid structures of the shoulders and hips, which are the body parts best adapted to load-carrying.

Northrop Aircraft, Inc. designed and built the decelerator sled equipment to Aero Medical lab specs. Northrop personnel operated and maintained the equipment on service contract with the AF.

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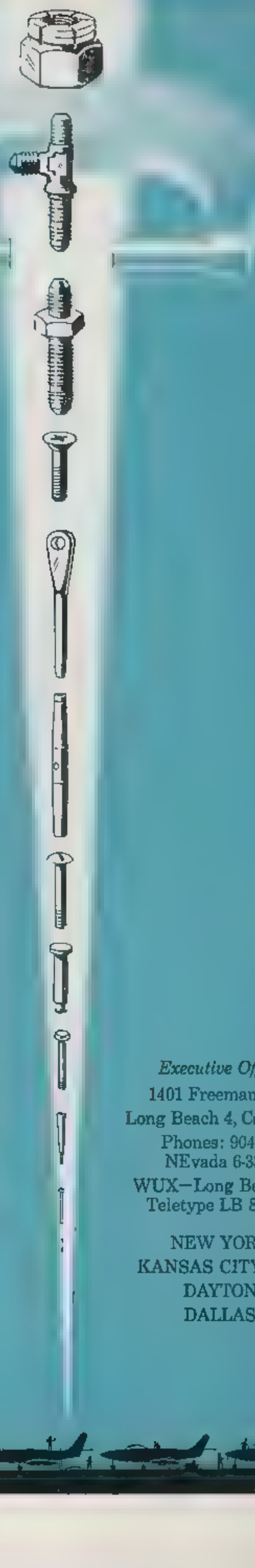

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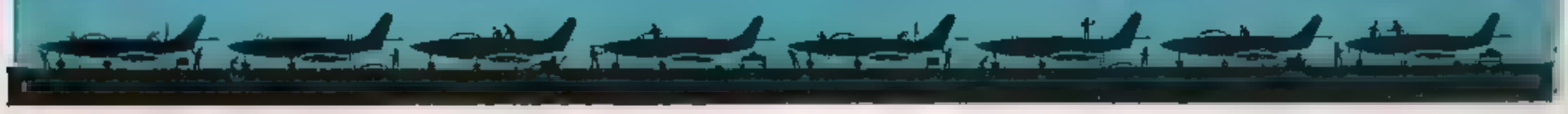
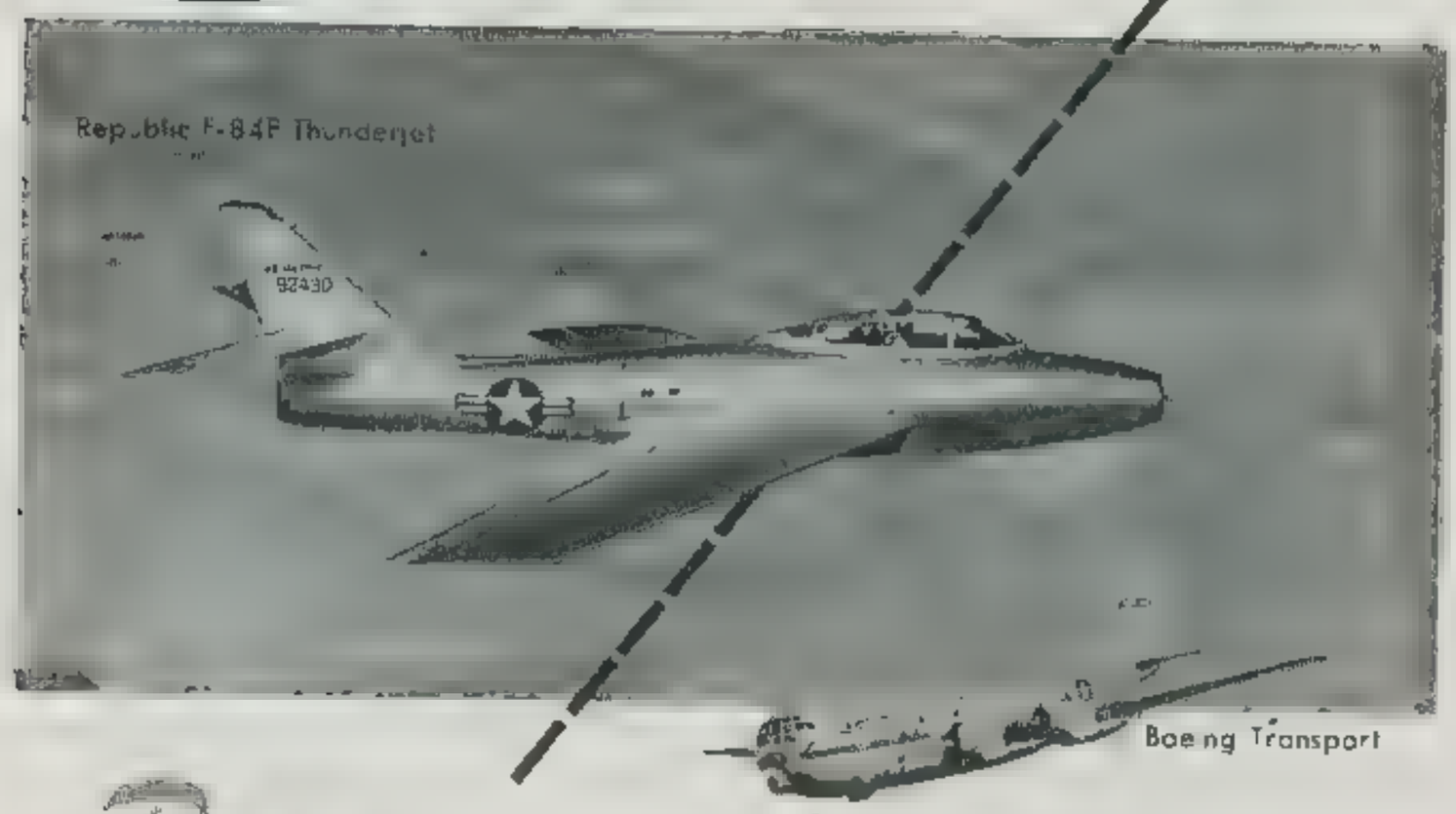


AEROTEC AUTOMATIC CONTROLS



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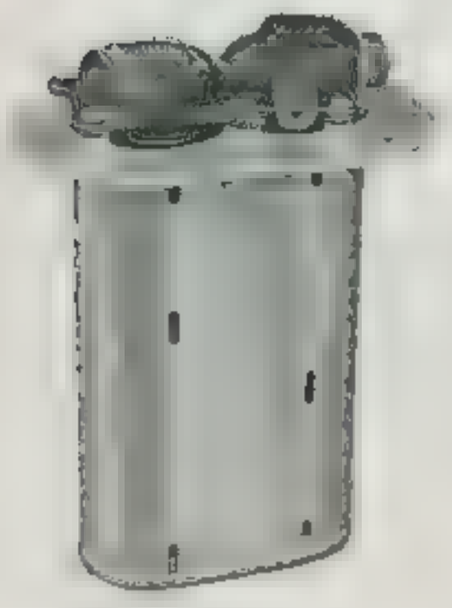

An Aerotec Dual Float Switch Top Mounted

Republic, Boeing, and other leading aircraft manufacturers are using many types of Aerotec Automatic Controls in increasing numbers. These controls are custom designed and built to meet specific problems of high speed and high altitude flight in today's aircraft. Each Aerotec automatic device passes rigid tests duplicating actual flight conditions to assure its efficiency and dependability.

The planes shown above are typical designs that incorporate Aerotec Automatic Controls. The Republic F-84F Thunderjet, a combat-proven craft, uses Aerotec pressure switches and a new dual float switch suitable for tip or pylon mounted auxiliary fuel tanks. Boeing has long used Aerotec valves, float switches, and pressure switches on their famous planes.

When you are faced with problems of automatic controls for flaps, landing gear and cabin heater applications, fuel transfer, flow indication, etc., contact Aerotec. One of our instrumentation specialists is near you, ready to give prompt and able assistance at any time. Call or write.

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Advice to AMC

The U. S. aircraft industry, as represented by its manufacturing methods committee, has some fixed policy ideas about how military service funds should be spent on production refinement contracts. Last week, with a list of 19 proposed contract projects, AIA's committee submitted these ideas to Air Materiel Command. Here are some of the basic points:

- **Manufacturing** methods funds of AMC should not be used for redesign of a product to improve its producibility, or to develop a production technique for a given design.
- **Fabrication** techniques and design of a given article for mass production are an industry function and should be an integral part of any supply contract awarded by competition.
- **Government** manufacturing methods funds should be used for developments in equipment or processes which lend themselves to general application in the industry and should not be involved in or related to proprietary designs or trade processes.
- **Air Force** should not attempt to sponsor separately projects on subjects also sponsored by RDB, ANC, and other joint agencies. Example, electronics.
- **Materials** substitution programs offer slight benefits to the services or to industry. Substitutions must be for specific designs.
- **Funds** should not be spent for improvement of processes or products in a known state of flux that may become obsolete overnight.
- **Military** services should investigate through Phase I procedure as many as possible of promising improvements in production, and consider placing limited orders for construction of machines, recognizing that it takes three years to develop a new machine and several years more to build a limited number of them.

wise for most uses of stainless steel although it weighs only 47% as much, in the same volume. And the resistance of titanium to corrosion is another high plus value. These facts together with the large quantities of the material available, are spurring the stepup of production of the metal and its alloys, along with the studies of its machineability.

▶ **Precision Forgings**—A project for development of forging techniques and reduction of forging tolerances, which is

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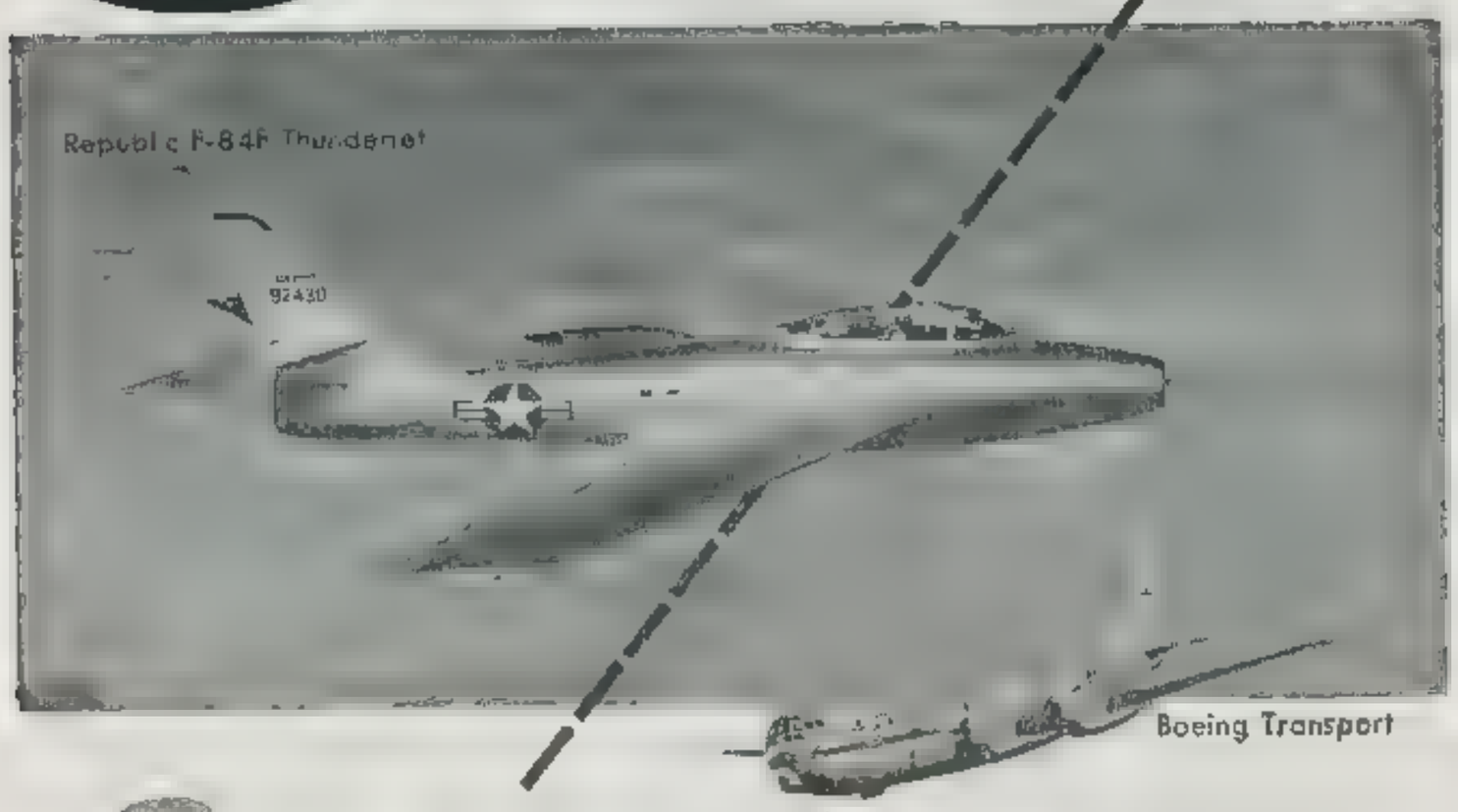

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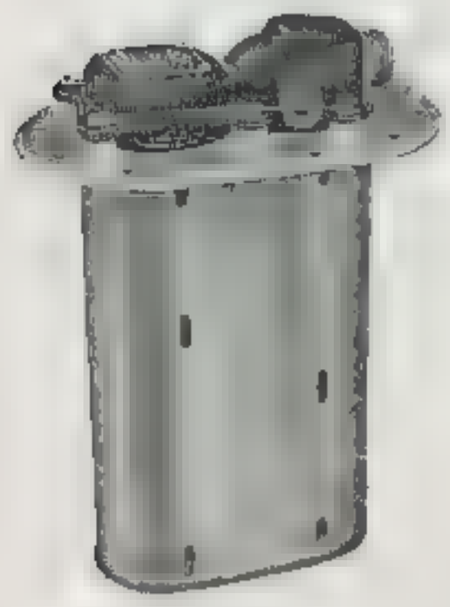
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When you are faced with problems of automatic controls for flaps, landing gear and cabin heater applications, fuel transfer, flow indication, etc., contact Aerotec. One of our instrumentation specialists is near you, ready to give prompt and able assistance at any time. Call or write.

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outside. So nozzles for spraying alcohol were mounted on the outside of the windshield. This proved to be a source of double trouble. Pilots soon began reporting hazardous alcohol fumes in the cockpit. And in soaking up too much alcohol, the plastic windshields had become "crazed," so they had to be put away and replaced by Plexiglas of higher craze resistance. A protective coating also was used to increase further their resistance to breakdown.

Solving the problem of fumes in the cockpit took a little longer.

► **Scoop Changed**—After a considerable lapse of valuable time, CV engineers discovered the airflow and shape of the windshield combined to send alcohol sluicing into the special cockpit heater airscoop. To make certain this was the cause of the fumes, the scoop was blocked off and essence of peppermint substituted for alcohol for investigative and safety reasons during tests.

But now the odor of peppermint prevailed throughout. Eventually, the engineers concluded the airscoop was the main trouble, but that the canopy and access panels near the cockpit also should be sealed better. Fumes finally were eliminated by re-locating the scoop and providing tighter sealing.

By keeping full steam on the project and tackling all obstacles with persistance, CV rapidly weaved in and out of similar large and small problems and managed to turn out the first six F4U-5NL winterized Corsairs 20 days ahead of schedule, 10 weeks after the first emergency call from the Navy.

OUR EXPANDING INDUSTRY

Convair Guided Missile division, San Diego, leased 79,000 sq. ft. of building space at Los Angeles County Fair Grounds to provide interim engineering, experimental shop and laboratory activities until the company's Pomona plant opens. Convair will vacate the fair grounds location by Aug. 1. . . .

Airponents, Inc., Hasbrouck Heights, N. J., has been formed to overhaul and test aircraft components. Founder and general manager is Samuel Lipton, formerly sales and service manager for Standard Aircraft Equipment Co. . . .

North American Aviation was scheduled to begin building T-6 trainer spare parts at Fresno Air Terminal on Nov. 19. . . .

American Pullmax Co., Inc., Chicago, has taken on exclusive sales representation in this country for the Swedish-made Koping high-speed lathes, from 16 in. to 40 in. sizes.

research. This means that one-eighth of the total college effort in these fields of engineering and physical sciences is already devoted to defense research

►**Near Saturation**—The Council's figures show that 82% of aeronautical engineering research in colleges and universities is now directed toward defense needs, sponsored by federal agencies or industries active in military development. No other field of the engineering or physical sciences shows such high concentration on defense activities.

In aeronautical engineering, there are 652 faculty members and full-time senior research personnel. Of these, 597 are judged qualified to participate in research projects, and 437 of them are now engaged in research. This effort is equivalent to the work of a full-time research staff of 290, of whom 237 would be engaged in defense projects for military agencies or their contractors.

In all, defense research amounts to slightly more than one-third of the total faculty effort—including teaching, administration, committee work—in aeronautical engineering in the United States today.

In all the physical and engineering sciences, aeronautical engineering stands fourth in the total volume of military research now underway in colleges and universities. The 237 "equivalent" full-time aero researchers are exceeded only in the basic sciences of physics (609 workers), chemistry (506 workers), and electronics (314 workers).

Almost 8% of college defense research today is in aeronautical engineering.

►**Non-Faculty Effort**—Graduate students and assistants in aeronautical engineering total 556, and their effort is equivalent to that of 284 full-time junior research staff members.

More than half of the total defense aeronautical research is concentrated at seven schools: University of Michigan, University of Minnesota, Princeton University, Massachusetts Institute of Technology, California Institute of Technology, Polytechnic Institute of Brooklyn and Northwestern University.

These schools reported the equivalent of 118 full-time senior research staff members.

They have 200 faculty members and senior research personnel in aeronautical engineering—more than one-third of those available throughout the nation. In the "big seven," nearly two-thirds of the total faculty effort in aeronautical engineering is devoted to defense research, compared to slightly more than one-third in all colleges and universities.

Of the total of senior faculty and research staff members qualified to per-

Research Limit

● Saturation reached in collegiate air studies.

● And faculty shortages rule out expansion.

By John I. Mattill*

Substantial increases in collegiate aeronautical engineering research are not possible without endangering educational programs in the field

This is one conclusion reached by the Engineering College Research Council after analysis of a national inventory of college and university research resources

But the Council also says that some increases can be achieved if the holes in the research pattern are filled, and if faculty members who take on research can get additional help

► **Project Report**—This picture of aeronautical engineering research in educational institutions is drawn from the complete report of a survey completed last summer by the Council's Committee on Relations with Military Research Agencies.

This national inventory covered special interests and activities of faculty and graduate students in all physical and engineering sciences at 750 colleges and universities in the United States. Over 24,000 faculty members, and an equal number of graduate students, were reported.

An informal review of the list of schools from which no replies were received suggests to the committee that "substantially all" of the national potential for research in colleges and universities in the physical and engineering sciences is covered.

Of nearly 25,000 faculty members reported, 20,000 are considered by their institutions to be qualified to perform research, but only 12,700 are now active in research. An average of 27% of total faculty time is spent on research activities, and on a national average 45% of this time is already spent on defense research studies sponsored by military agencies or their industrial contractors.

"Putting these figures another way," Dean A. F. Spilhaus, of the University of Minnesota and chairman of the council committee, has pointed out, "of the 25,000 faculty members reported, one-half are active in research; these spend about one-half of their time in research, and one-half of this is devoted to military

* Secretary, Engineering College Research Council

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QUESTION

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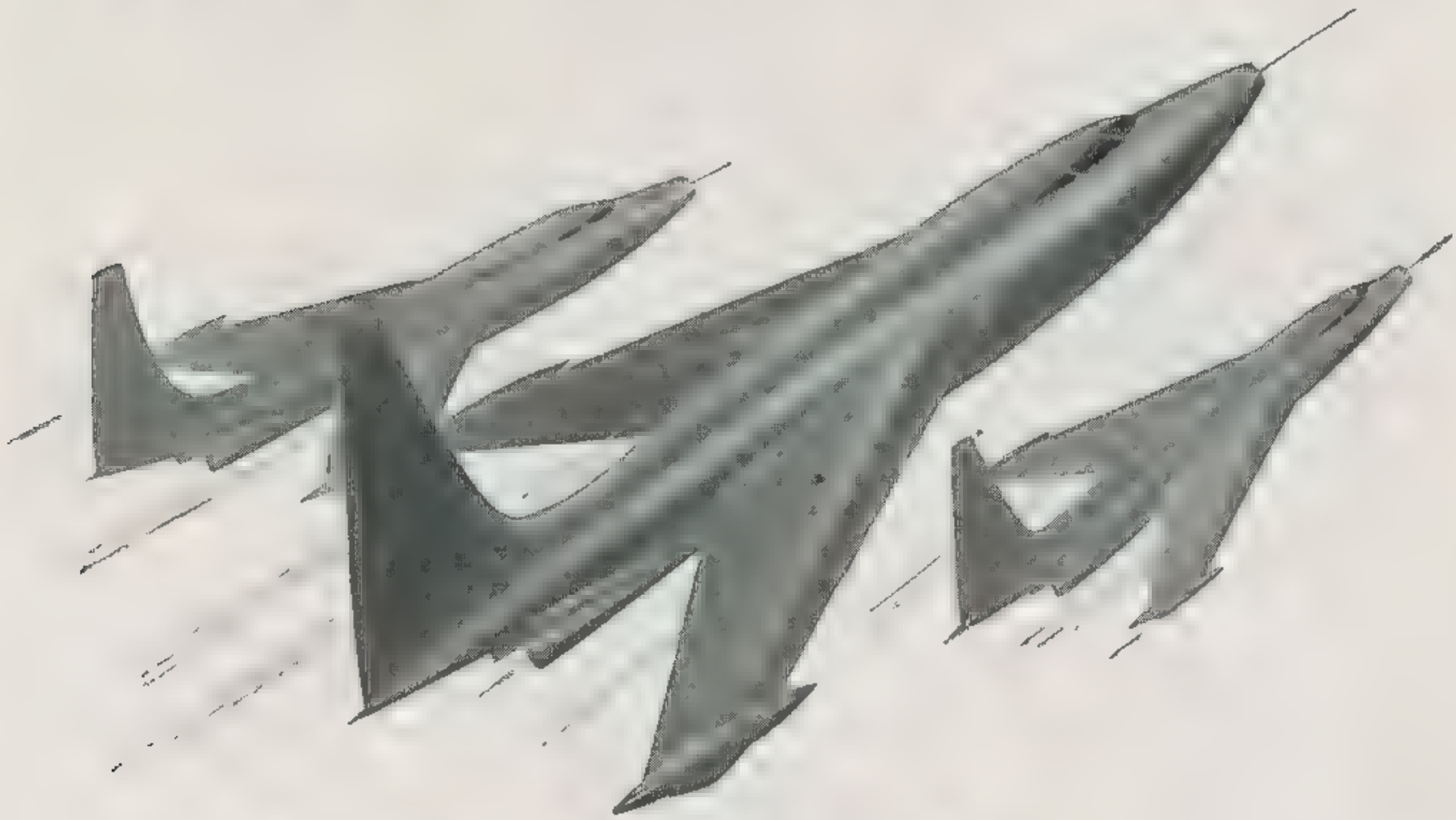

IS GOING PLACES!

Magnesium, the world's lightest structural metal, has kept pace with the tremendous progress in aircraft design. In the past decade, startling design improvements have been made—improvements depending upon the inherent advantages of magnesium. Where 1,000 lb. of this ultra light metal were used in the 1940 bomber—now 15,000 to 25,000 lb. are used.

Today it is found in almost every part of these planes in the form of sheet, castings, extrusions and forgings. By this extensive use of magnesium the weight of today's bomber is as much as three and one-half tons less than it would have been had other metals been used throughout. Cutting pounds off the weight without sacrificing strength, magnesium has made possible the addition of extra features, more payload or greater flying range.

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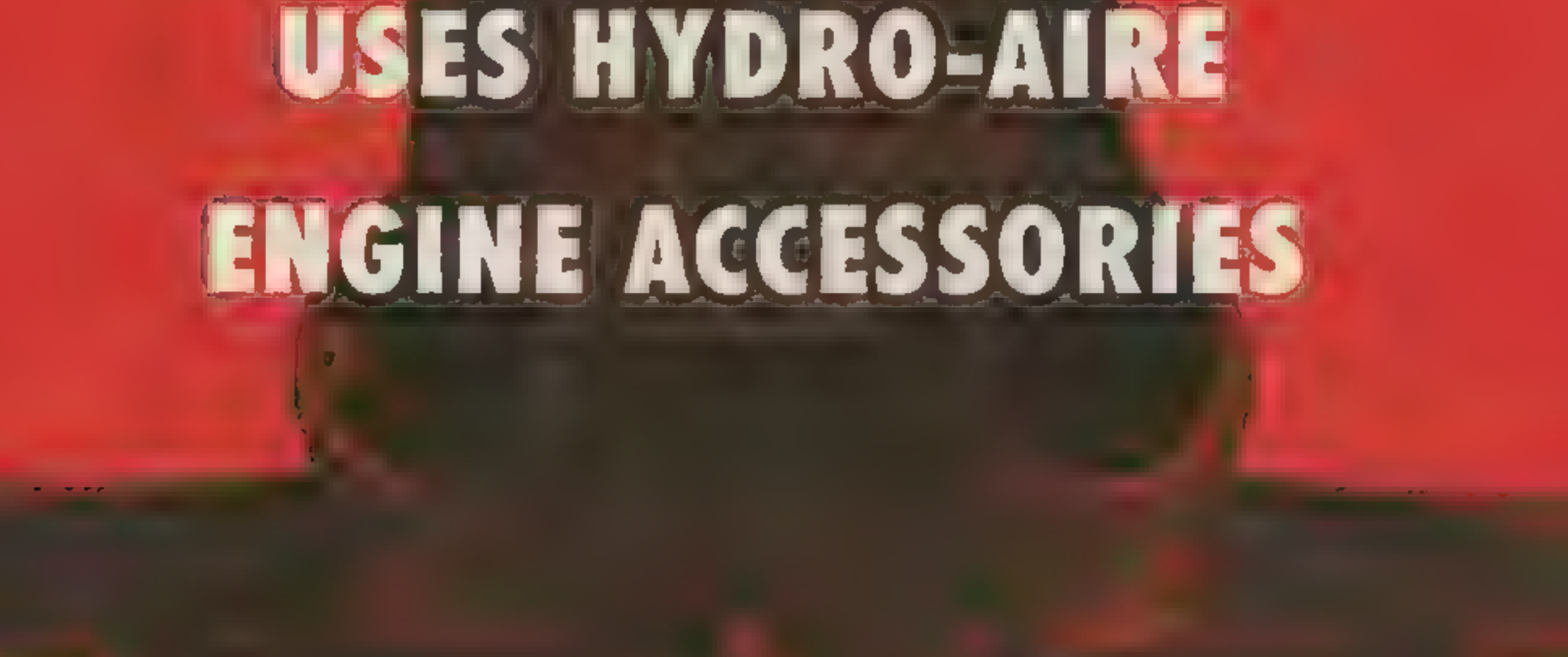

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El Al Plans Summer Schedule Expansion

Tel Aviv—El Al, the Israeli National Airline, is planning an ambitious summer schedule that will include two flights weekly to New York, weekly trips to South Africa and several flights each week to the cities of Europe.

Two Constellations will carry the work load. In order to maintain its ambitious schedule, the airline is planning to fly each of the planes an average of 11 to 12 hours daily—two or three hours more than most airlines.

One of the Constellations will fly from Johannesburg, South Africa, to New York with a stop-over at the Lydda airport in Israel. The other New York flight will start at Lydda. The line hopes to add a third Connie this summer.

Air transportation is of particular importance to Israel. Most tourists arrive by air, and Israel has a number of exports for which air freight is preferred —among them polished diamonds, flowers and early vegetables.

The Lydda airport, built by the British, is well-equipped. It has four runways (one of them 1.6 mi. long), all the necessary radio equipment for night landings, and a first-class hotel. The field now is used as a half-way stop between Europe and Asia on some flights of several of the big international airlines.

► **Profitable 1950**—Since April 1, 1950, El Al has received no more foreign currency grants from the Israel treasury, but has covered all its expenditures from its own revenue (passengers not permanently residing in Israel must pay their fares in hard currency even if they book their passage in Israel). The company balanced its budget for 1950, and even made a small profit. Comparing the first three months of 1951 with those of 1950, passengers carried had risen from 2700 to 3600; freight from 30 to 154 tons; and mail from 14 to 16 tons.

A special weekly air freight service to Europe using Curtis Commando aircraft was to be introduced last month, in addition to the regular passenger flights using Constellations and Skymasters.

THA Closes Down

Tahiti-Hawaii Airways, formed last December to link the French Society Islands with Hawaii, has gone out of business, blaming a French demand that it must use French-registered and owned aircraft. Transocean Air Lines, Oakland, had been chartered for the survey flight which proved successful, and was included in future plans for the Tahiti-Honolulu run.

An application by Pan American World Airways to include Tahiti in its South Pacific service is still pending.

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Allison Turbo-Prop Engines Power 3 New Cargo Planes—

★ **The Lockheed XC-130**

★ **The Douglas R6D**

★ **The Lockheed R7O**

While testing continues with the first U.S. Turbine Transport—the Allison Turbo-Liner, built by Convair—military contracts have been awarded for the installation of Allison Turbo-Prop engines in three additional types of transport aircraft.

★ The Lockheed XC-130—a U.S.A.F. four-engine medium cargo plane—is *the first military transport ever designed originally around Turbo-Prop power.* It won U.S.A.F. design competition over five other makes and the selection of Allison engines represents another *first* for Allison in the development of turbine transports in this country.

★ The new Navy-sponsored R6D is a modified configuration of the world-famous Douglas DC6A Liftmaster.

★ The Navy R7O is the new turbine version of the Lockheed Super Constellation.

Allison Turbo-Prop engines were selected for all three aircraft because they develop more power with less than half the weight of present engines in this power class.

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Builders of J35 Axial, J33 Centrifugal Flow Turbo-Jet Engines and T40 Turbo-Prop Engines

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Proof-testing engines today for the airplanes of tomorrow.

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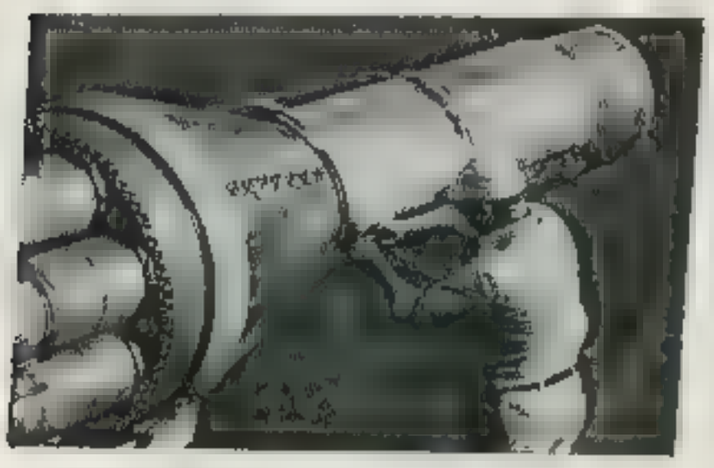
The jet power that helps to make North American Aviation's F-86 Sabre the world's fastest operational airplane, develops extremely high temperatures which must be insulated from flight personnel and the airplane structure. Réfrasil Lightweight Removable Insulating Blankets installed around the exhaust section of the F-86 jet engine give a temperature drop of more than 1000 F. within a blanket thickness of one half inch. Réfrasil is capable of high temperature insulation up to 1800 F. These are the reasons why Réfrasil is specified by 90% of jet aircraft makers and is continually finding new thermal and electrical insulation applications in petroleum, chemistry, electronics and many other industries. Réfrasil can help solve your high temperature problem too. Write today for illustrated data.



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SHORTLINES

► **Aerovias "Q,"** Cuban airline, has CAB and Presidential permission to fly passengers, mail and cargo between Havana and West Palm Beach for two years. Winter traffic is about double summer's. Direct Havana-West Palm Beach service would expand traffic between the two points and compete little with anyone else.

► **Air Coach Transport Assn.** has placed full-page ads with Washington newspapers outlining CAB nonsked regulation history and criticizing CAB for revoking the letter of registration of ACTA president Amos Heacock's Seattle-Alaska nonsked airline—Air Transport Associates, Inc. While re-instating several other nonskeds it had planned to put out of business, CAB brought enforcement action against Heacock on grounds he flew too often to Alaska with foods, freight and passengers.

► **Braniff International Airways** now has a full staff in Miami—newly authorized Braniff gateway to South America. Service is now five flights a week. . . Company boasts "the fastest airline service between the U. S. and Sao Paulo, Brazil, the largest industrial city in Latin America."

► **British Overseas Airways Corp.** plans to fly Stratocruisers on the New York-Nassau run starting next month, three times a week. Constellations have been making it. . . . BOAC showed a $28,000 net profit in August, second month's profit in its history. July was the first, with $341,600 net reported. Loss in August a year ago was $1,058,400.

► **Capital Airlines'** debt at Sept. 30 was $3,026,500 of debentures. This marks a reduction of $11,599,000 in debt in 33 months. At Dec. 31, 1948, the company owed $4 million to banks, $9,850,000 of debentures, and $775,688 arrears on debenture payment and sinking fund schedules.

► **Eastern Air Lines** reports final details are settled with Braniff and Mid-Continent on two interchange through-flight services: Miami-Denver via EAL-Braniff interchange at Memphis; and Miami-Kansas City via EAL-MCA interchange at St. Louis. Service will begin as soon as "technical alignment on flight equipment can be worked out," Eastern says.

► **European-American Airlines** is currently a "paper" airline; it will come alive flying DC-4s if its application for a trans-Atlantic air freight certificate, now consolidated in the North Atlantic Certificate renewal case, receives favorable CAB and/or Presidential consideration. Head man of the company is Albert E. Dickens, Washington, D. C. CAB decision and perhaps Presidential decision are expected by July 4, 1952, date of expiration of PanAm and TWA route certificates.

► **Hertz Driv-Ur-Self** has extended its credit card system to Canada, Hawaii, Mexico and the United Kingdom.

► **Mid-Continent Airlines** plans to occupy its new hangar, service shops and office building at Twin Cities by Dec. 1. All structural steel work is done. July 20 storm damage set schedules back five weeks.

► **National Airlines** has asked CAB for route extension from New York to Boston. . . . Has also asked CAB to lower its compensatory mail rate from 53 cents a ton mile to 45 cents (same as Big Four) next year when National gets its DC-6Bs. These will lower the airline's costs, National says. National also figures the lower mail rate will raise its mail volume.

► **Navy Fleet Logistics Air Wing** Atlantic-Continental division has flown 60 million passenger miles in a year without any kind of accident.

► **Northwest Airlines** says it will start Stratocruiser service, Seattle-Anchorage, Nov. 1, making total of 21 trips a week including nine DC-4 trips added this month. Daily cargo lift capacity will be 20,000 lb. each way daily. CAB suspension of nonsked Air Transport Associates caused cargo pile-up and intensified cargo service demand at Seattle for flight capacity to Alaska. . . . NWA has CAB examiner's recommendation for all-cargo service on Route No. 3, Twin Cities to New York and to Portland and Seattle, with restrictions on service to many intermediate cities.

► **Sabena Belgian Airlines** is using two Sikorsky S-51 copters to fight insects in the Belgian Congo. The copters were bought in England, where Westland Aircraft built them under license Two more are on order for delivery this year.

► **Slick Airways** has opened full cargo facilities for servicing Baltimore from Friendship Airport. Slick says Baltimore service will be integrated with its C-46 service and its new DC-6A service.

► **United Air Lines** flew a record 186,377,000 revenue passenger miles in September—26% over a year ago.

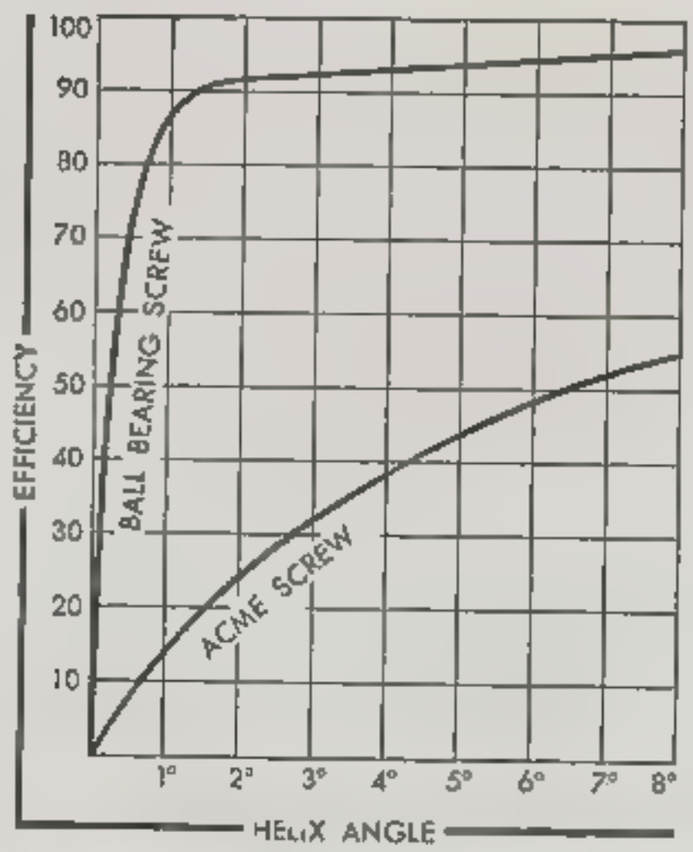
FRICTION-FREE TRANSFER OF ROTARY TO LINEAR MOTION

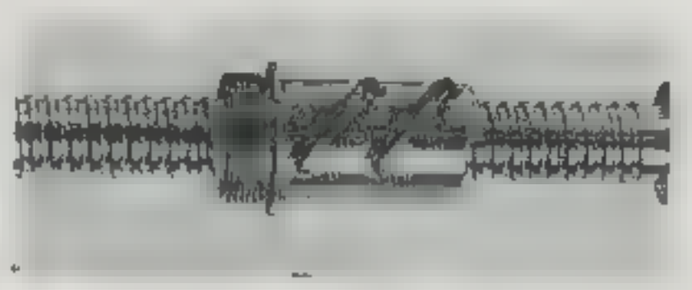
with Saginaw Ball Bearing Screw Jack

• Permits faster operation, forward or reverse • Requires less power • Compact design • Light in weight • Remarkably low maintenance • Practically unlimited in application

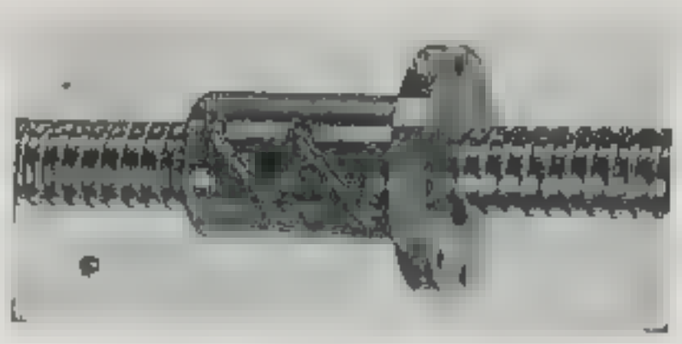
The Saginaw Ball Bearing Screw and Nut, up to 97% friction-free, and one of the most efficient means of transferring rotary into linear motion known today, is widely used in aircraft actuating devices. It is vastly superior in efficiency to the conventional Acme screw

The Saginaw Ball Bearing Screw and Nut permits the use of lower horsepower motor drives in actuators, reducing over-all weight, gives faster operation with less heat generated, and allows rapid forward or reverse action with minimum friction. It is compact in design, light in weight—and requires very little maintenance.





Threaded-type nut. Two-circuit assembly.



Flange-type nut. Two-circuit assembly.

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Aircraft applications of this actuator are many and varied. It operates satisfactorily under extremely high loads. Stroke and thrust are limited only by available power. Saginaw treats each application as an individual design, and is equipped to meet any desired production rate. Saginaw's engineering staff is one of the most highly trained and experienced in the entire field of manufacturing and its facilities are available to customers for assistance with their problems.

Write for Saginaw's new factual booklet on the ball bearing screw and nut principle.

Address Saginaw Steering Gear Division, General Motors Corporation, Saginaw, Michigan

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EXPANDING INDUSTRY

Westinghouse Electric, which has received numerous recent military contracts involving several hundred million dollars, has announced a $296 million expansion program extending beyond 1953, including a new electronics equipment plant at Raritan Township, N. J., a small motor plant at Union City, Ind., electronic tube plants at Elmira and Bath, N. Y., an aircraft armament plant at Baltimore, Md., and a jet engine parts plant at Columbus, Ohio. New contracts include production of pylons for F-84 Thunderjets at Mansfield, Ohio, appliance division and navy orders for jet engines, including the Westinghouse J-40, at Philadelphia gas turbine division.

Solar Aircraft Company, San Diego, has dedicated its new Wakonda jet engine parts plant at Des Moines where it will manufacture hot end parts for latest jet engines. Building and machinery cost $7 million and plant has 300,000 sq. ft. First job will be production of J-47 components for Packard

McCulloch Motors Corp., Los Angeles, has purchased all outstanding stock of Rhodes Lewis Co., Culver City engineers and makers of aircraft components. This is the third major acquisition by McCullock in the last six months, previous purchases being Del Riccio Plastic Products Corp. (now Pacific Optical Corp.) and Davis Precision Machine Co

Norden Instruments, Inc., has started construction of a new million-dollar plant in Milford, Conn., to make fire control equipment for aircraft and ships. The plant will employ about 800 and is expected to be completed early next year.

Weatherhead Co., Cleveland, has received an order from Packard Motor Co., prime contractor on the General Electric J-47-GE-23, to build components of this engine.

Hughes Aircraft Co. has moved into its new 40,000 sq. ft. electronic feeder plant in Los Angeles Airport Industrial Tract. Company also has acquired three warehouses, two buildings for the accounting department and one for purchasing at the tract and now employs about 10,000.

AC Spark Plug Division of General Motors will add approximately 590,000 sq. ft. at its Dort Highway plant for production of special defense products,

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IF IT'S quality you're after—if its quantity you want—if it's a special specification you need, Auto-Lite has the answer. In 39 years' experience, Auto-Lite research and advanced laboratory skills have assisted leading aircraft manufacturers in meeting difficult wire and cable problems. Today, the tremendous output of the new Hazleton plant, combined with the now increased facilities at the Auto-Lite Port Huron plant, makes it possible to accept additional aircraft wire and cable business. Money cannot buy better wire and cable.

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Aircraft Low Tension Cable Specification AN-JC-48a. Aircraft Low Tension Cable shielded Specification ANC-168.

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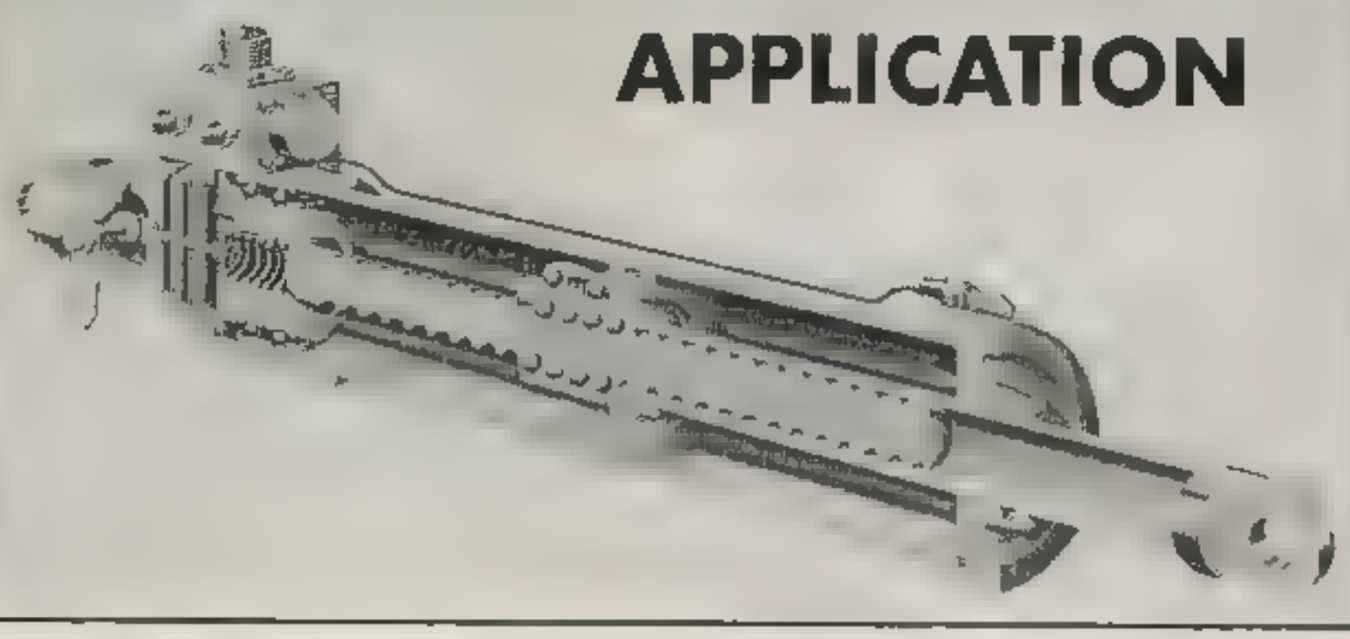
NEW BALL BEARING SCREW APPLICATION



New Aircraft Actuator Uses Saginaw Ball Nut Screw

This advanced, hydraulic aircraft actuator owes its efficiency and lightweight to its quick-acting Saginaw ball bearing screw and nut. It operates satisfactorily under extremely high loads . . . features emergency power drives and synchronization for two or more units. In the event of system failure, a mechanical brake locks the actuator. Stroke and thrust are limited only by available flow and pressures.

Numbers show electro-mechanical actuator installations on Banshee jet fighter for (1) main landing gear door, (2) main landing gear, (3) wing fold, and (4) nose landing gear. Operating loads run from 1800 lbs. to 14,000 lbs. Strokes range from 8.4 in. to 19.53 in. All installations use Saginaw's friction-free ball bearing screw and nut.

FRICTION-FREE PRINCIPLE NOW AVAILABLE FOR UNLIMITED USES

The friction-free operation of the Saginaw ball bearing screw and nut brings new efficiency to numberless industrial operations. In many cases actuating efficiency is increased more than 90 per cent, while operating costs are reduced as much as two-thirds.

The Saginaw ball bearing screw and nut makes possible the use of smaller motor drives with less horsepower. It permits faster operation with less heat generated, and allows rapid forward or reverse action with minimum wear and friction. Compact design for simple lubrication; remarkably low maintenance.

SAGINAW DESIGNS EACH APPLICATION TO SPECIAL ORDER

Each application is treated as an individual design; Saginaw makes no off-the-shelf sales. Manufacturing facilities are geared to meet any desired production rate — large or small — and deliveries are scheduled to meet customer requirements.

Saginaw puts 38 years of gear building experience behind every product it makes; has one of the largest and most highly trained staffs of engineering, designing and manufacturing gear specialists in the country.

INSTALLATIONS FOR BALL BEARING SCREWS COVER EVERY FIELD OF INDUSTRY

Present industries using the product include aircraft, machine tool, automotive, farm machinery, boat building. It is widely employed in truck trailers, adjustable beds, lifting jacks and countless other actuating devices. Complete engineering facilities are available to give prompt attention to customer problems.

Saginaw
STEERING GEAR DIVISION
General Motors Corporation, Saginaw, Michigan

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The ADF-50 is a 5-in. dual indicator designed specifically for red and green ADF receivers.

The ADF-50 carries CAA certificate number 4R4-2, the maker says, and features a rotatable azimuth scale which can be adjusted by a small knob to either the magnetic or true scale as desired by the operator. The indicator has a fluorescent dial with a red and green pointer.

The smaller ADF-52, carrying CAA type certificate number 4R4-4, has a standard 2⅞-in. dial and does not incorporate the rotatable azimuth scale. Both models are priced at $225 f.o.b., Fort Worth. Address: PO Box 4178, Ft. Worth 6, Texas.

Tiny Relays

Substantiating the seeming contradiction that while many types of aircraft are becoming larger, many of the components used in them are getting smaller, Neomatic, Inc. has placed on the aviation equipment counter a line of relays not even large enough to cover a postage stamp.

Designed to meet exacting space and performance requirements in aircraft, guided missiles and other airborne equipment in which more and more avionic components are being crowded to meet increasingly stringent and complex flight demands, these relays weigh less than ½ oz.; are built to withstand high vibration and acceleration forces. Designated Series M, they also will be available shortly in hermetically-sealed containers for protection against pressure and temperature variations, dust and other conditions.

Series M relays are built to stand up under 20 G vibration and more than 50 G acceleration in any direction, without affecting contact position. The coil is universal-wound and vacuum impregnated. Precision adjustment of operating value is provided and mounting is accomplished with one 2-50 screw and an extruded locating pin which maintains alignment. Model 5500, shown above, is an SPDT type rated at 5000 ohms, 72v. d.c. Address: 879 Wellesley Ave., Los Angeles 49, Calif.

for the 230-ft., trumpet-shaped subsonic diffuser and in an addition to the original acoustical house.

Concrete partitions were erected at five stations within the diffuser housing and slots were cut in the diffuser bays between partitions, producing a resonator to attenuate effectively within its design frequency range. The acoustical treatment in this subsonic diffuser handles the 5 to 11-cps. range.

► **Ducts Added**—From the diffuser, the air stream is discharged into a concrete chamber, its rear wall lined with staggered rows of conventional 4-in. perforated metal acoustical panels filled with Fiberglas. Noise from the diffuser is directed against this panel maze.

In the concrete chamber the air is turned 90 deg. into six parallel 10 x 10-ft. ducts. This arrangement was required to handle the tremendous air flow (about 2 million cfm.) and still maintain a low pressure drop to prevent excessive overload on compressor and motor drive.

► **Duct Makeup**—First portion of each of the six ducts has five resonator sections to handle sound from 11 through 20 cps., progressing from the lower frequencies in the upstream portion through the higher frequencies downstream in the ducts. Four slots in the 6-in. thick concrete duct walls open into a resonator chamber partitioned off from the preceding chamber.

Last section of each of the six ducts is similar in cross-section to the resonator portion, but the wall is made up of 6-in.-thick panels of Fiberglas covered with perforated metal. These panels are attached to the partition bulkheads that divide the air chambers in back of the duct walls. This part of the installation is effective over a range from 20 to 200 cps.

► **Discharge Chamber**—After passing through the ducts, the air flows into another large concrete chamber. Conventional 4-in.-thick acoustical panels are placed flat against the far wall. Discharge to atmosphere is at 90 deg. to ducting exit.

Filling the discharge opening are 4-in.-thick, Fiberglas-filled, perforated panels placed on 16-in. centers.

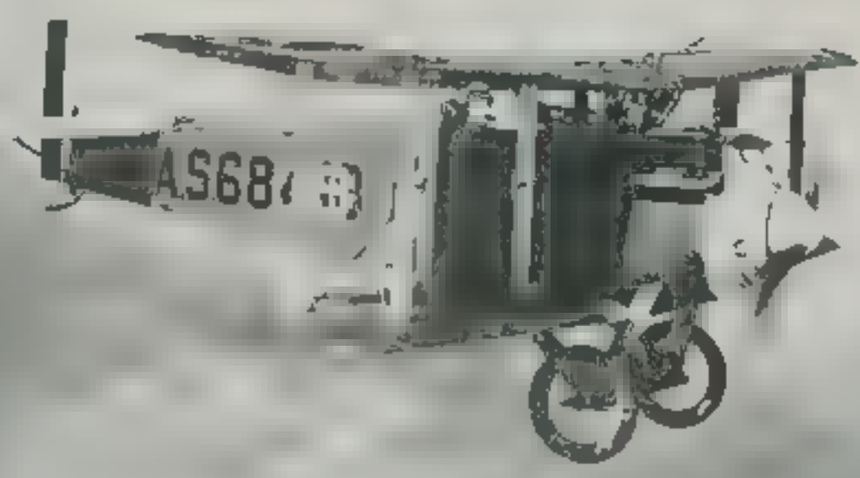
The conventional panels used in both discharge chambers and in the opening to the atmosphere are effective attenuators from 200 cps. and up, thus taking care of the higher frequency levels found in the tunnel operation.

The acoustical housing structure's outside walls are 12 in. reinforced concrete. All walls, roofs and duct liners have isolated breaks to prevent noise from traveling through the structure.

Directing the acoustical research on the tunnel was the consulting firm of Bolt, Beranek and Newman, whose three members are associated with the Acoustics Laboratory at MIT.

AEROTEC

1920 (B.C.*)



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ENGINE—HISPANO 340 H.P. TOP SPEED 152 M.P.H.
GROSS WEIGHT 2094 LB. MANUFACTURED 54

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Thirty years ago, no one worried about automatic controls, except possibly the designers of future "dream" planes. At 152 M.P.H., airplanes of the Thomas Morse type were well within the pilot reaction time for manual control of all phases of flight.

Fighter craft today present an entirely different picture. With 5 times the speed of the MB3-A and 20 times the horsepower, these aircraft operate far beyond the limits of human reaction. To supplement pilot control and protect life, automatic devices are specified as standard equipment in ever increasing numbers

Outstanding in this field is the Aerotec Corporation . . . whose automatic controls are specified by every major military airframe manufacturer in the United States

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Designing and building compact, light and efficient equipment for cooling and pressurizing aircraft is a Stratos specialty. Typical of Stratos creative engineering is the air cycle cooling unit which conditions the air for the crew of the Boeing B-47. Weighing less than 45 pounds it delivers 60 pounds of minus 3 degree Fahrenheit air per minute. Like other Stratos equipment it can be relied on to give long and trouble-free service. Stratos cooling units with air flow capacities ranging from 12 pound/min to 90 pound/min are standard equipment in many combat aircraft of the Navy and the Air Force.

Stratos units, engineered to the precise requirements of the installation, are now in use in such typical military aircraft as the McDonnell F2H2, Douglas XA2D, the North American YF93A and such commercial aircraft as the Convair 240 and the Lockheed Constellation.

Those who build and equip the nation's top aircraft know that good engineering comes in small packages—

For information on this and other Stratos equipment, write

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FAIRCHILD ENGINE & AIRPLANE CORP

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Fairchild Engine Div., Guided Missiles Div., Al-Fin Div., Farmingdale, N.Y.

to vibration and other repeated or fluctuating loads may be affected materially by applying stress to the metal before it is used in service, recent studies by technicians J. A. Bennett and J. L. Baker of the NBS mechanical metallurgy lab have shown.

In some instances, this prestressed treatment increased fatigue life considerably—especially at lower stresses when a comparatively small number of cycles of dynamic prestress were applied

But there were instances where little if any improvement resulted. And at some stresses, the fatigue life was shortened by the prestress.

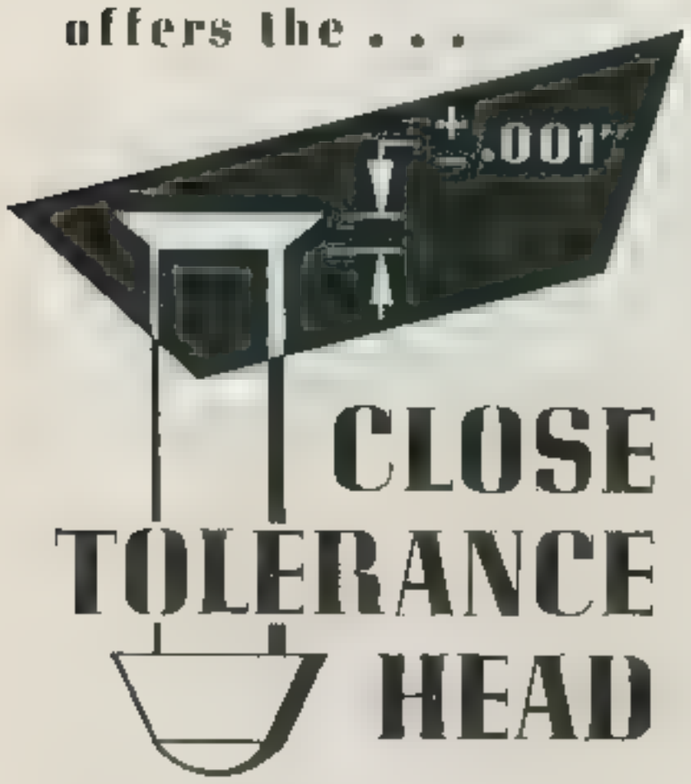
► **Conditions Approximated**—One of the difficulties in applying the results of lab tests to actual installations is that in many structures the stresses vary in a random manner—as in an airplane wing, which must support not only the weight of the craft (a steady load), but fluctuating gust loads as well

To approximate this situation, the cumulative effect of fatigue stressing at two or more amplitudes was evaluated, using aluminum alloy sheet specimens for tests

The researchers applied these two methods of prestressing

• **A high static load** was applied to the

Only *hi-shear* offers the . . .



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in a *steel* fastener to the aircraft industry

the HS-2R7

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"The HS-2R7 permits smooth surfaces, essential to transonic speeds and laminar flow."

Assemblymen say -

"...rapid installation, without hand fitting in either cut-countersunk or dimpled holes."

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That's the way Sprague likes to make radio interference filters for aircraft electrical and electronic equipment. Sprague filter engineers have a wealth of experience in designing ingenious mounting arrangements and case shapes to fit in cramped quarters. Moreover, the filters they design to meet these tough mechanical requirements have excellent insertion loss characteristics and are designed to withstand aircraft operating temperatures, vibration and shock beyond the stiffest specification limits.

Write today for help in solving your radio noise filter problems!

SPRAGUE PIONEERS IN ELECTRIC AND ELECTRONIC DEVELOPMENT

FILTER DIVISION
SPRAGUE ELECTRIC COMPANY
NORTH ADAMS, MASSACHUSETTS

it had tried and abandoned its project, but Wright Aero's work along this line is continuing.

Wright is also encouraging the use of "chip detectors" in engines although they do give occasional false warnings from water accumulation or electrical trouble. It is currently testing a Swedish unit (AVIATION WEEK May 15, 1950). KLM's pre-war experience with chip detectors was too many false warnings, and units have been removed.

EAL is testing the detector, but has left off the warning lights in the cockpit.

Most R-3350 engine operators agreed with Wright's present study to reduce to a minimum seal connections in the fuel injection lines. WAC said that a configuration eliminating over 30 seals will soon be ready for test.

Wright is combatting master rod bearing failures on the R-3350 BA3 engine by campaigning against unnecessary oil dilution; devising several different types of crank pin plug configurations to prevent sludge from breaking loose during dilution (TWA is testing five different types). The manufacturer hopes soon to release use of a fine mesh screen which, experience shows, collects an amazing number of contaminants.

The problem of cracked cylinder hold-down flanges is directly related to ignition trouble, PAA believes. Plot-

In 1922 Henry Berliner made the first successful helicopter flight in the helicopter invented by Emile and Henry Berliner.
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Many versatile designs of stepping, counting, adding and subtracting, latching, and *circuit selecting* relays are made possible by the combination of the Ledex Rotary Solenoid and wafer type rotary switches. Self-stepped or externally impulsed, the device is immediately adaptable to many remote control applications. A choice of wire sizes permits a wide range of operating voltages and power requirements. Various types of mountings further increase its adaptability. In addition to its positive control of multiple, complex circuits, a reserve of mechanical power is available for the performance of duties other than switching operations.

We supply to quantity users and solicit the opportunity to be of assistance in solving multiple circuit relay problems.

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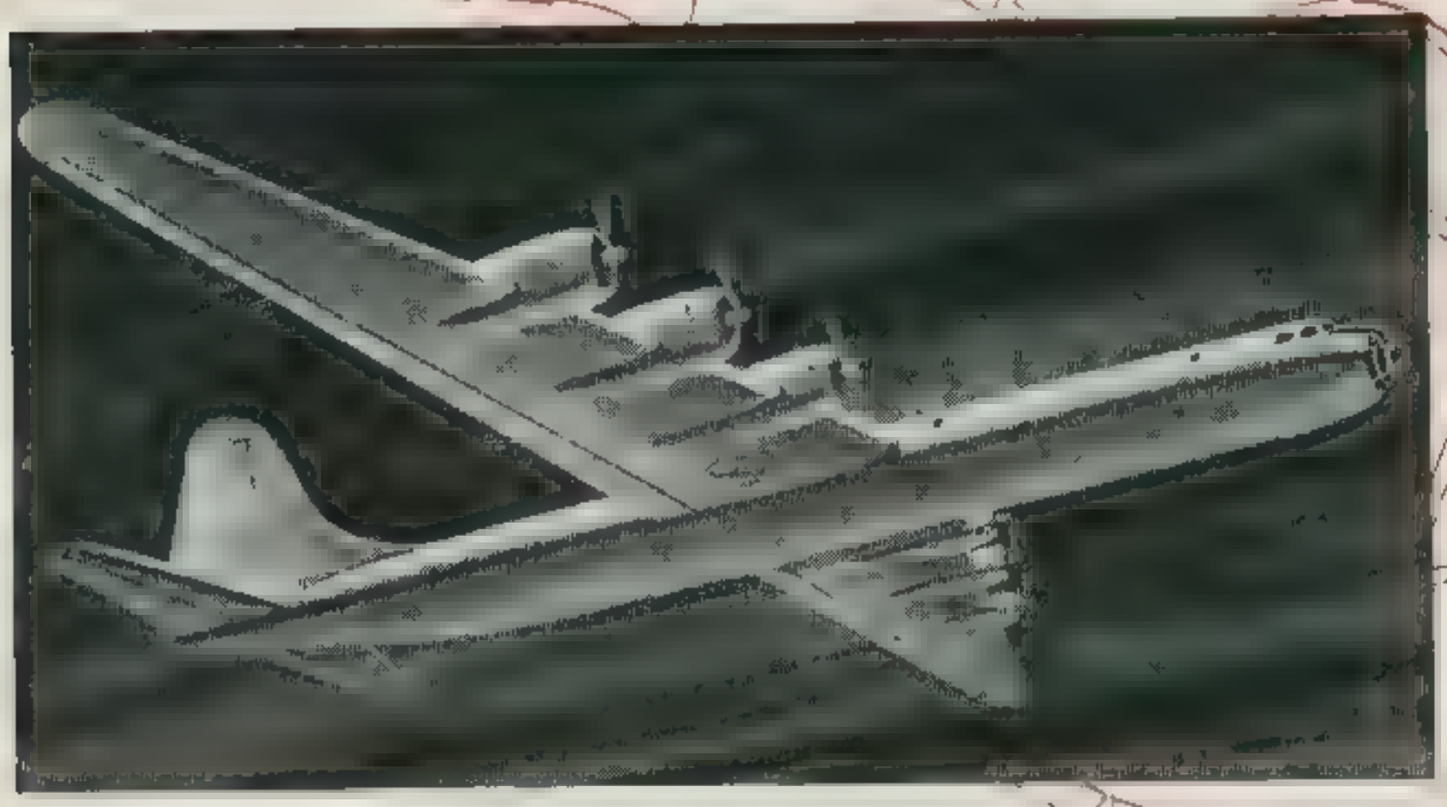

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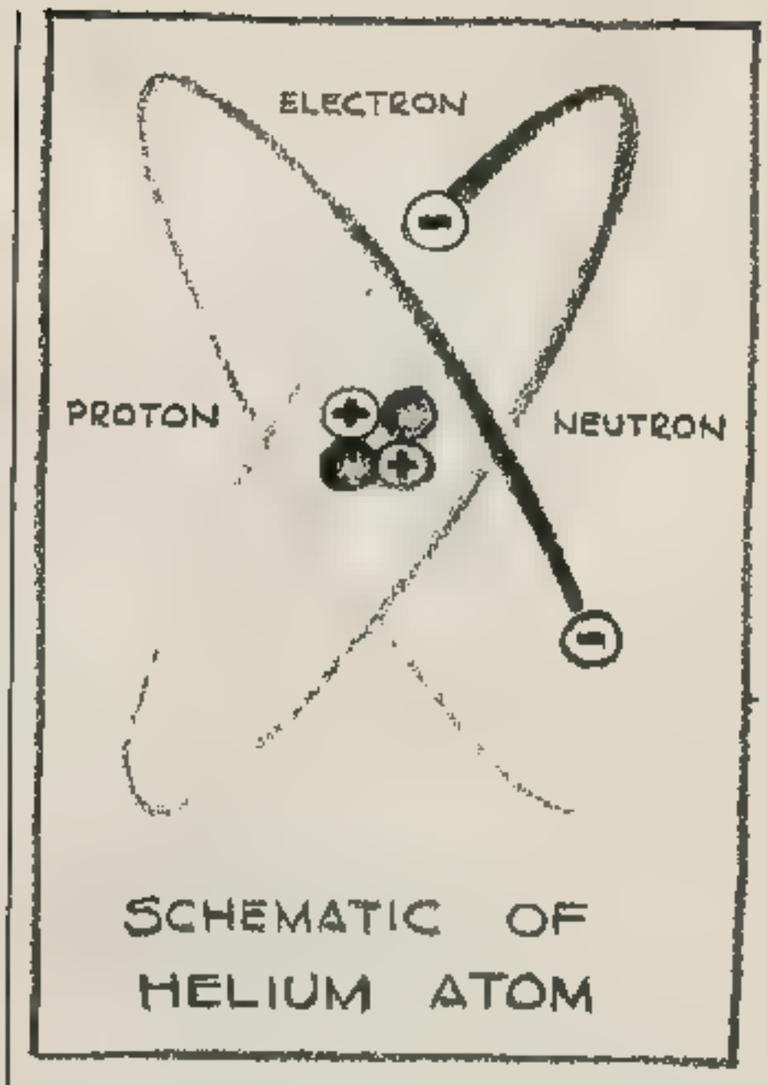

SCHEMATIC OF HELIUM ATOM

this energy is called the **binding energy.**

Taking helium as an example, over 250,000 hp.-hr. would be needed to disrupt all the nuclei of all the atoms in one gram (1/30 ounce) of helium.

Conversely, this much energy would be released in forming a helium nucleus from neutrons and protons.

Accurate binding energy figures are available for many different atoms. And the general trend of these figures shows that binding energy increases to a maximum value for atoms around the middle of the periodic table and then decreases again. So, nuclei of mass numbers from 40 to 100 are most strongly bound.

And any reaction which results in forming tighter-bound nuclei from loosely bound nuclei will release energy.

►**Getting Energy**—This consideration of formation or binding energies leads to the supposition (proved at Alamogordo six years ago) that energy can be obtained by breaking heavy nuclei into several small fragments, or by combining light nuclei to produce heavier ones.

To produce this energy—to initiate a nuclear reaction—neutrons must be produced.

But merely having neutrons is not enough. There is no guarantee of collision between a free neutron, slashing along through space, and an atomic nucleus. Take uranium, for instance. If you built a greatly enlarged model of the atomic structure, and represented the nuclei by pinheads, you would have to space them at 250 ft. intervals to maintain the correct proportions.

So the probability of nuclear reaction varies, depending on the particular nucleus and the bullet which hits it.

The particular nuclear reaction that led first to the atomic bomb and later

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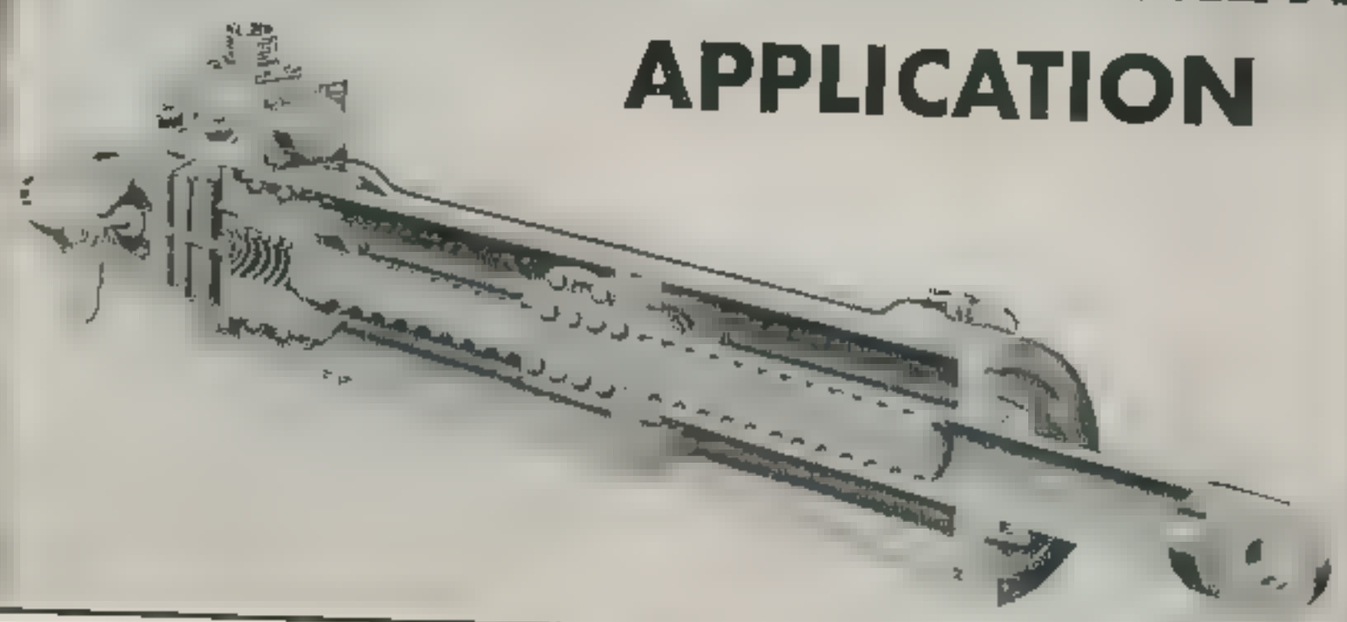
NEW BALL BEARING SCREW APPLICATION



New Aircraft Actuator Uses Saginaw Ball Nut Screw

This advanced, hydraulic aircraft actuator owes its efficiency and lightweight to its quick-acting Saginaw ball bearing screw and nut. It operates satisfactorily under extremely high loads . . . features emergency power drives and synchronization for two or more units. In the event of system failure, a mechanical brake locks the actuator. Stroke and thrust are limited only by available flow and pressures.

Numbers show electro-mechanical actuator installations on Banshee jet fighter for (1) main landing gear door, (2) main landing gear, (3) wing fold, and (4) nose landing gear. Operating loads run from 1800 lbs. to 14,000 lbs. Strokes range from 8.4 in. to 19 53 in. All installations use Saginaw's friction-free ball bearing screw and nut.

FRICTION-FREE PRINCIPLE NOW AVAILABLE FOR UNLIMITED USES

The friction-free operation of the Saginaw ball bearing screw and nut brings new efficiency to numberless industrial operations. In many cases actuating efficiency is increased more than 90 per cent, while operating costs are reduced as much as two-thirds.

The Saginaw ball bearing screw and nut makes possible the use of smaller motor drives with less horsepower. It permits faster operation with less heat generated, and allows rapid forward or reverse action with minimum wear and friction. Compact design for simple lubrication; remarkably low maintenance.

SAGINAW DESIGNS EACH APPLICATION TO SPECIAL ORDER

Each application is treated as an individual design; Saginaw makes no off-the-shelf sales. Manufacturing facilities are geared to meet any desired production rate — large or small — and deliveries are scheduled to meet customer requirements.

Saginaw puts 38 years of gear building experience behind every product it makes, has one of the largest and most highly trained staffs of engineering, designing and manufacturing gear specialists in the country.

INSTALLATIONS FOR BALL BEARING SCREWS COVER EVERY FIELD OF INDUSTRY

Present industries using the product include aircraft, machine tool, automotive, farm machinery, boat building. It is widely employed in truck trailers, adjustable beds, lifting jacks and countless other actuating devices. Complete engineering facilities are available to give prompt attention to customer problems.

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strated in the Korean theatre by Republic's F-84E, it is likely that a substantial number of the Fs have been, or will be, ordered—which would mean a huge number of J-65s as powerplants and spares.

It is also to be expected that subsequent, harder-hitting versions of the Thunderjet will follow, with no change in engine type to slow production flow.

►**Other Uses?**—And there are other Air Force near immediate uses for the J-65. The English Electric Canberra bomber scheduled for production by Glenn L. Martin Co. now is powered with Rolls-Royce Avons with a power rating estimated at about 7500-lb. thrust. This power is fairly close to the Sapphire's and some development refinement incorporated in the J-65 along with its production may give a thrust to match the Avon's.

This consideration, bolstered by the fact that the Avon will not be made here, may swing the scale in Wright Aero's favor to use its J-65 production rate to take care of the Canberra

Also, there is still a possibility of Air Force orders for Martin's B 51, with the further possibility that the J-65 may be used in it to capitalize on Wright Aero's production potential.

Another reason that may prompt use of the J-65 in a variety of planes is the reported low fuel consumption (of the Sapphire)—believed in some quarters to be less than that of any jet built here.

►**Thrust Factors**—Continued development of the J-65, along with the production of this engine, undoubtedly will be carried out to boost its power. How far this thrust-raising program will continue will depend on the relation of the power potential of this jet to the overall status of the engine requirements picture.

If squeezing additional push out of the J-65 does not seem feasible in the light of other powerful engines which will become available, Wright Aero may focus its development and production efforts on the Olympus.

►**Multiple Compression**—If it is decided to schedule the Olympus for production, more Wright Aero engineering will be incorporated in this engine than in the J-65 because the latter was pretty much a quick deal to get the company's jet lines rolling.

One of the schemes under consideration in this country in jet engine compressor design is towards an arrangement for higher compression ratios and lower fuel consumption, in which two compressors are used—one a low-stage unit, the other a high-stage unit.

The British also are reported to have considered this approach, and because the Olympus is a comparatively late development engine, it is possible that it may emerge with multiple compressors.

technologies contributes to the continuing shortage of engineers. Up to one-third of the graduates with bachelor's degrees stay on as candidates for master's degrees, simply because they feel that the time will be better spent in study than in obtaining experience. And of the master's group, one-third continues to the doctorate.

► **Future Deficits**—The schools impose a limit on expansion of engineering student registration with quota systems. Colleges argue that to over-expand is dangerous to their educational future and that overtaxed facilites and faculties can only result in a general lowering of standards. And so quotas are set which effectively limit the number of students in any one course, dependent upon the scale of instruction and laboratory space and equipment available.

In querying, it was found that schools were running a little under the quota figures for aeronautical engineers, although other engineering courses were full. So it appears as if filled quotas in all course registrations will not alleviate the situation, either.

There is one other point that seems worth mentioning in connection with things that happen to the prospective engineering market. Every year, a percentage of engineers take non-engineering jobs. The over-all figures for the entire profession are not available, but one indication has been furnished in a recent survey conducted by New York University's College of Engineering. That college found that over 25 percent of its alumni were in responsible non-engineering positions, including such diverse lines as teaching, sales, law, medicine and publishing.

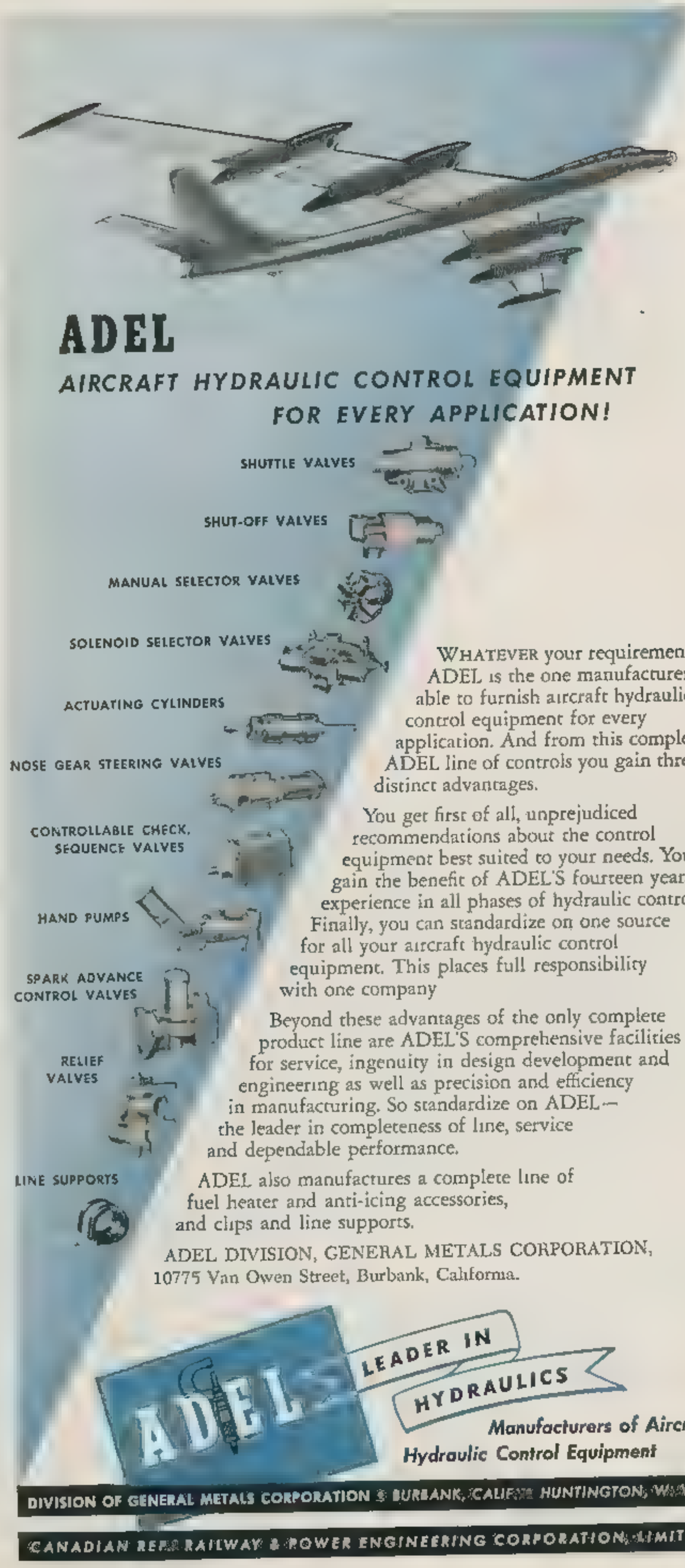
► **What to Do?**—These are some of the factors which either have or will contribute to the continuing shortage of engineers. The problem, of course, is to reverse the trend and somehow assure a continuing supply of engineers in the quantities needed.

It has been estimated that needs of industry and military could be met by an annual graduation of 30,000 available engineers.

Since the drop-out rate on engineering students is about 50 percent, not counting those who fall to the draft, a minimum annual input of 60,000 freshmen would be required. This is double the number entering this year.

And there is an expected drop in high school graduations expected in the period from now until 1958. Clearly, no dependence can be placed on a continuing increase in the number of engineering frosh.

Over the past fifteen years, about 3 percent of the total high school graduating classes have entered engineering schools. But on the basis of current numbers of high school graduates, about 10 percent would have to enter in order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to guarantee 30,000 engineering college graduates per year. And educators express doubt that so high a percentage have the aptitude or interest to make engineering entrants.

• **The basic is that an adequate supply of engineering graduates does not exist and cannot be made to exist.**

The aircraft industry—with other industries—is entering the "seven lean years" of the shortest supply and greatest need of engineers that it has ever known. It can only hope at best to relieve its shortage, not to eliminate it.

Industry has been advised (by the Engineers Joint Council, among many others) to make the most efficient use of its existing staffs of engineers; to reestablish training programs of World War II; to give limited technical training to high school graduates, women and supporting personnel. Full utilization of these suggestions will help to strengthen engineering staff's abilities, by passing some of the details on to various aides or assistants

Long-range, the aircraft industry can enter more into cooperation with educational institutions in a number of ways. It can suggest curricula changes or additions to enable graduates to make the transition from school to work in less time and more smoothly. It can actively support, through gifts of equipment or components, the laboratories of technical colleges. And it could certainly sponsor—through scholarships, loans or direct subsidy—many times more students than it now does

The problem belongs to industry, and only the industry, within itself, can find the solution

To substantiate material for this article, AVIATION WEEK *spot-checked four eastern colleges whose curricula have the approval of the Engineers' Council for Professional Development. These colleges represent about 9 percent of the entire graduate and undergraduate population of the United States, but about 22 percent of the aeronautical engineering student body. The four:*

- *NYU College of Engineering*
- *Rensselaer Polytechnic Institute*
- *Polytechnic Institute of Brooklyn*
- *Massachusetts Institute of Technology*

As a matter of interest, these schools together will graduate 180 aero engineers this year, about 140 next year and about 140 the year after that.

Other figures used in analyzing the current status of the engineering profession came from Circular 287 of the United States Office of Education; the Engineering Manpower Commission of the Engineers Joint Council; John I. Mattill, of the MIT News Service; John W. Andrews, of Brooklyn Poly; the Registrar's office, RPI; the office of Dean Saville, College of Engineering, NYU.

a British Sapphire and its WAC-built counterpart.

► **Cost Cuts Planned**—To reduce production costs, WAC probably will try to make at Wood-Ridge as many of those parts which, through feasibility of home-manufacture, could appreciably bring down the price of the engine. Even the fabrication of turbine blades will be a consideration

But, in the main, it will place greatest reliance on production efficiency to cut costs. Emphasis will be put on trying to "de-skill" operations wherever possible, placing the accuracy in the machine instead of the operator.

Comparing what WAC expects to do with the Sapphire production-wise, with the British fabrication scheme for this engine, company officials believe that they can turn out the jet in half the time.

► **Full Program Output**—Along with the Sapphire program, WAC also is concentrating on its Turbo-Compound engine. Production requirements for this engine next year for the Wood Ridge plant alone should be about six times the present output.

And when the Sapphire program gets into full swing, its output plus that of the Turbo-Compound should result in the production of more units per month than at any time during World War II. In this latter period, about 750 Cyclone 18s per month came from Wood-Ridge.

► **Plant Expansion**—As schedules for the Sapphire and Turbo-Compound now stand, there will be no need for erection of additional production facilities. This is because production-engineering and other activities are being moved into four new areas

► **Employment Factors**—Overall employment figure for WAC is now about at the 11,000 mark. And another 7000 probably will be taken on before the year is over, and the figure undoubtedly will climb. Most of these probably will be shop personnel.

For design, development and research projects, WAC hasn't been able to hire all the engineers it could use. For all programs—including the Sapphire—it has taken on about 100 engineers since last fall, and this figure will jump as industrial mobilization accelerates, for all technical categories from drafting through fabrication to experimental test of components.

A vital sidelight on the tightness of the engineering personnel supply is that in five years the situation, for all aeronautical firms, may be more than just critical—perhaps appalling. Fewer engineers are reported coming out of schools because less have been entering, those with reserve commissions are being called into service, and Selective Service is taking others.

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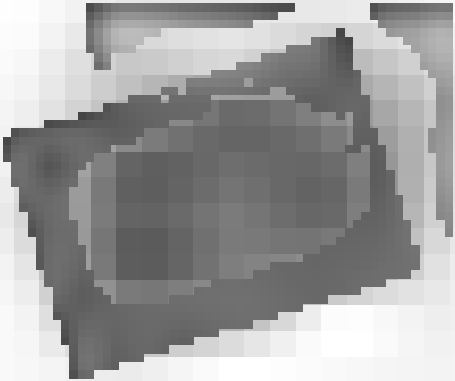

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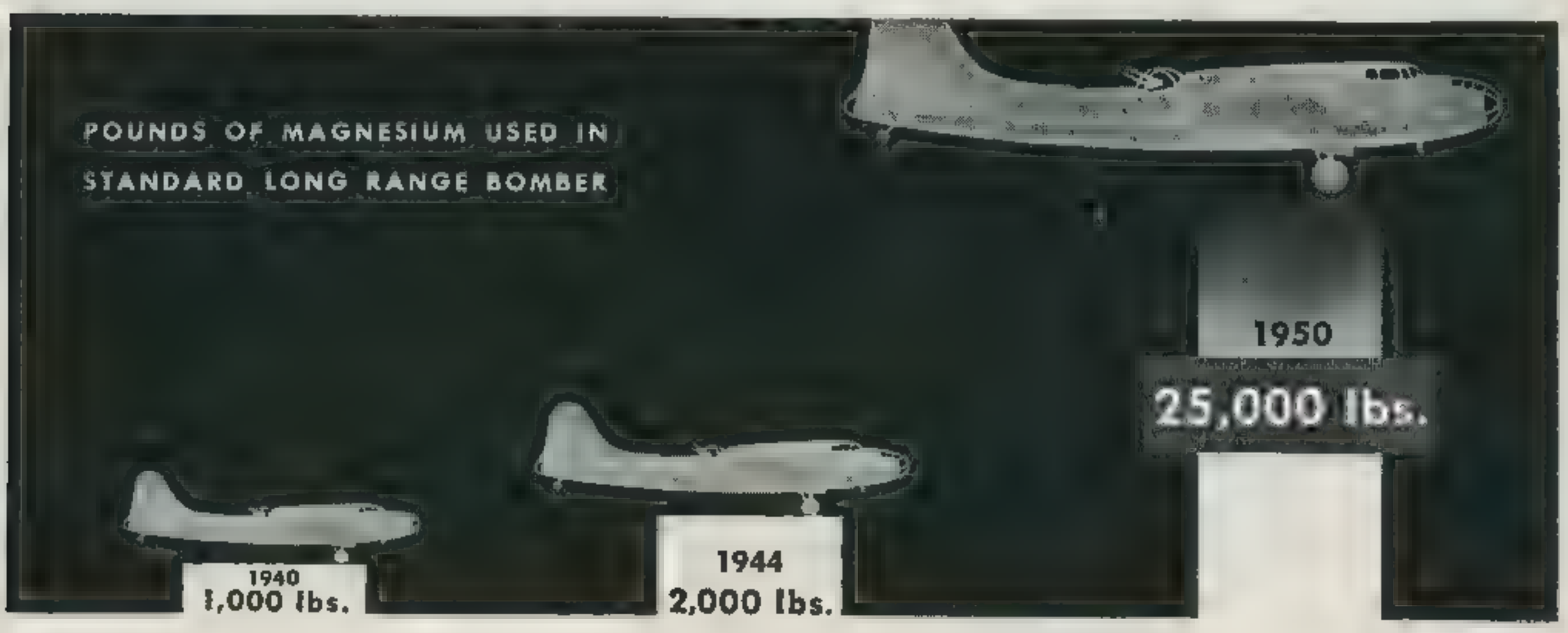

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In addition to its lightness, magnesium is easily fabricated. All forms of fabrication may be used: castings, forgings, extrusions, sheet and plate. In many cases, magnesium is actually the lowest cost metal since it permits noteworthy economies in fabrication.

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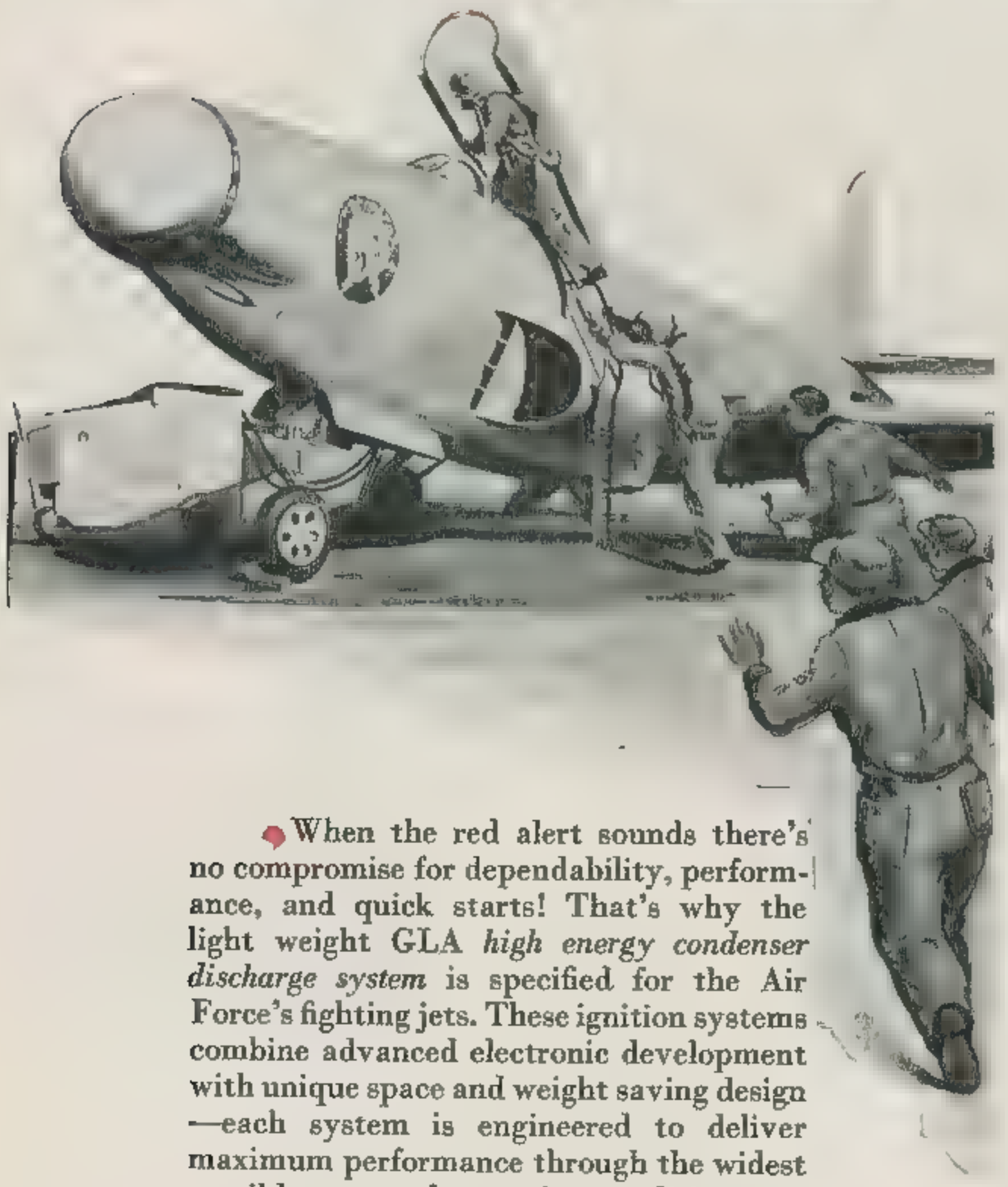

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Equipment will come from Engis.

Tooling engineers in Boeing, Seattle, are understood to favor the use of optics for all production rather than merely for experimental alignment of wing joining jigs as at Wichita.

Boeing, Lockheed, and Douglas are all buying optical equipment to build the B-47.

A tooling engineer who asked not to be quoted said he was in favor of optical tooling but was unable to "sell the front office."

►**Frank Words**—Comment was quite outspoken on the Republic jigs with clamp-type castings—"Too high off the floor"; "We can weld cheaper"; and "It is too big." Another tooling representative said, "The Germans used clamps because they didn't have the pipe to cut up; but we do and we aren't ready to adopt the casting system yet."

People who answered the AMC questionnaire weren't quite so brutal.

And there were additional plaudits for the Republic system, too. Several engineers thought the Republic system goes farthest in establishing a line and a angle and holding it in space.

►**Repair Uses**—The possibilities of optical tooling to set up repair jigs for stressed skin aircraft was advanced by William Collins of the Sacramento Air Materiel Area. Collins said SAMA has had trouble holding to the fantastic tolerances required for stressed skin aircraft. He noted that when the specifications say you must rebuild a wing with one degree wash in and one degree wash out, you have to hit it or the ship won't fly.

He gave an example. Recently SAMA got a damaged F-84 wing. The rapair shop took off the skin, section by section, straightened it on a Gurley, holding to .020 plus or minus. When it was finally put together it was twisted and out $\frac{3}{8}$ inch in one dimension. No pilot would fly it. Collins said they could have saved manpower if the repair jig had been optically aligned.

Collins said he sees the need for an optical tooling structure which can be set up as a rework jig in two working days.

He pointed out, too, that whereas manufacturers wouldn't release production fixtures to repair wings, they or the maintenance depots could set up a proper repair jig using optical tooling.

Optical tooling was also put forth as a valuable aid in avionics. Precision radar requires phenomenal tolerances in alignment which would be aided by optical tooling.

►**AMC Questionnaire**—Though response was weak to the AMC questionaire on clamp type fixtures and optical tooling, a summary of the reaction might prove interesting.

• Nearly everyone agreed that past experience has shown the need for design-

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which did not alter dimensionally during operation.

► **Bearing Seal Troubles**—Knowles says that the front bearing seal went through several stages of development to produce a satisfactory design. The seal is put behind the front bearing of the compressor rotor to prevent lubricant from escaping into the cavity immediately in front of the first rotor disks. This space is at a negative pressure of 1.5-2 psi. because it is connected to the compressor air passage ahead of the first stage rotors. The bearing area is at atmospheric pressure

Original seal was a carbon ring held in place against a cast iron rubbing surface by a single helical spring with a pressurized gland on the shaft as a further seal. This arrangement did not work well because the single helical spring did not bear evenly on the carbon ring. The result was uneven, heavy wear of the sealing surfaces.

A carbon ring seal was then used, supported by a multiplicity of small springs. At this time it was decided to eliminate the gland as an unnecessary complication. The new seal worked well on rig tests but was erratic on the engine. It was thought that the differential thermal expansion of the rotor and stator casing was causing the trouble by permitting the sealing surfaces to move apart. This was checked by introducing wear plugs near the seal which showed that little differential expansion was taking place.

When this was established a large number of seals were examined and it was discovered that the spring rate and travel of seals as supplied varied considerably from specification. When these were brought under closer control the trouble disappeared.

► **Vibration Problems**—Knowles relates that one of the more difficult problems did not become apparent until almost after a year of testing, engines having then logged about 2,000 hr.: A single seventh stage rotor failed, followed by several more within a short period, some on engines with relatively few hours of running. Thereafter, failures continued to occur in apparently random fashion.

These failures appeared as fatigue cracks, the result of the high vibratory stresses induced in the blade by the coincidence of one of the natural frequencies of the blade with an exciting force such as that caused by the passage of the blade through the wakes of the preceding row of blades.

Because the failures were somewhat sporadic and since there was a great spread between the lengths of running time which produced them, it was suspected that the material might be at fault. A survey was made of the physical properties of the batches of material from which the failed blades had been made and these were compared with the properties of batches which did not produce any failures. This gave little information

Since the experimental engines had been used for a variety of tests, a survey of the running history of all engines was made by plotting the operating time in each 100-rpm. speed range. It was not possible to draw any conclusions from a comparison of histories of engines which had failed blades and those which had not.

The study was narrowed to a comparison of histories 10-, 5- and 1-hr. prior to failure to establish speed ranges which caused failure. This also proved of no value.

► **Failures Not Isolated**—As more failures occurred they were tentatively identified from the nodal pattern surveys as being caused by either second torsional mode or the first complex mode, both of which occurred within the running range, but it was still not possible to explain how some engines could run several hundred hours without failure and others would fail in less than one hundred hours, even when the known scatter of the endurance properties of the material was taken into account.

Without result, failed blades were carefully examined for manufacturing flaws and inconsistencies, such as varia-

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tremely important elements of good design.

► **Suitability Prime**—Superimposed upon the general specifications are the type specifications, which cover items special to a particular kind of aircraft, and model specifications, which define a particular aircraft of that type. The tendency nowadays in some quarters, and it is a good one if not carried to excess, is towards type requirements that state the problem rather than specify exactly how it is to be solved—that is, towards objective specifications. This has come about partly as a reaction against the rigidity of design which has crept into specifications, and partly as a result of increasing attention to the aircraft as part of an operating system designed to do a certain job.

On the subject of initial choice, many a project has been doomed from the start because it was ill-conceived. And, parenthetically, some well-chosen ones have failed because they were improperly executed. Thus there is the twin criteria of a well-tempered aircraft —suitability and quality. One without the other is insufficient, but entirely possible; both are necessary for success.

Suitability comes first and is fundamental. No matter how high the quality, if the design is not suitable for its purpose it will fail. For example, an M.G. Midget is no doubt a high quality automobile, but its suitability as a hearse is poor.

NEXT: Details of design.

High Speed Flight Test Instrument

A new flight test instrument—the Aerohead Pick up—to measure pitch, yaw, ram pressure and static pressure up to a Mach number of 3 is being produced by G. M. Giannini & Co., Inc., 254 W. Colorado St., Pasadena 1, Calif.

The pickup, about 10 inches long in the larger of two models which are available, is basically a bullet shaped headpiece with four highly swept fins to maintain weathercock stability. The fin and head assembly swivel on a universal joint to face into the relative wind at all times.

Model 2519D measures pitch and yaw angles up to 20 deg. within an accuracy of 0.2 deg.

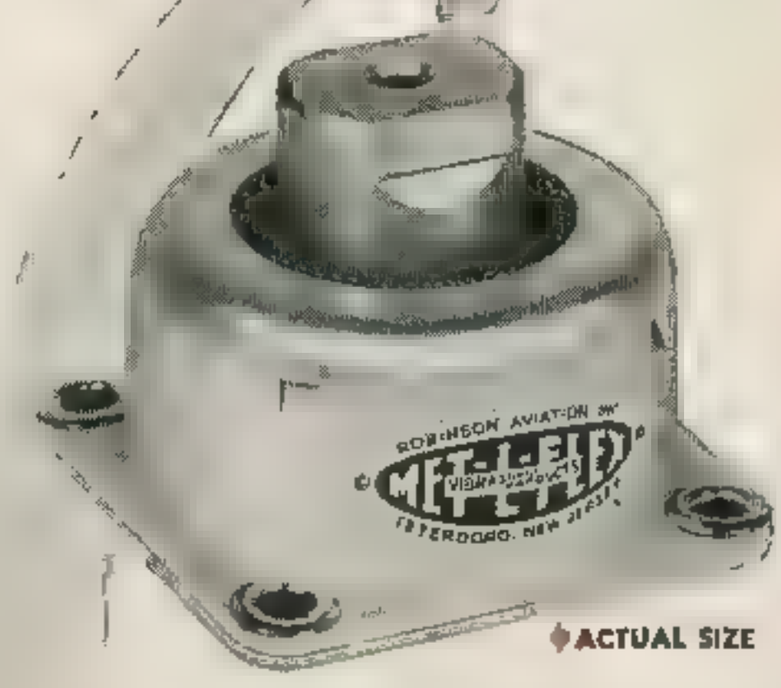
Model 25112 is like 2519D with the addition of a pitot-static tube mounted at the nose. Ram pressure and static pressure are transmitted through the universal mounting with less than a 1% error to pressure pickups

Both models have high natural frequency, both are suitable for installation as the leading portion of a spike antenna, and both have 0 — 5 v. dc. potentiometric output.

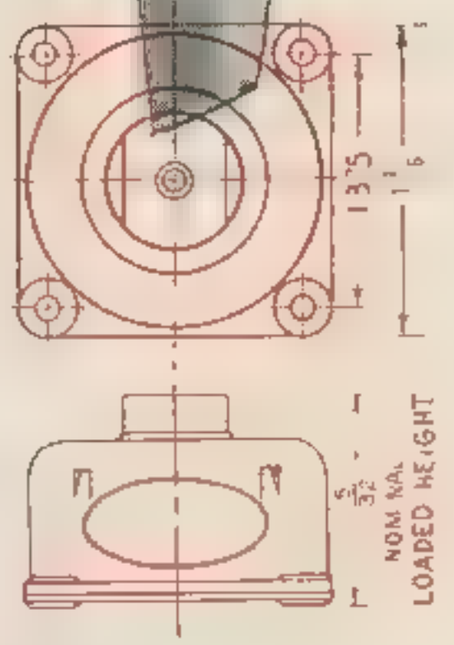
New MET-L-FLEX Mounts

ROBINSON Series 7001

#1 SIZE CUP TYPE UNITS



ACTUAL SIZE



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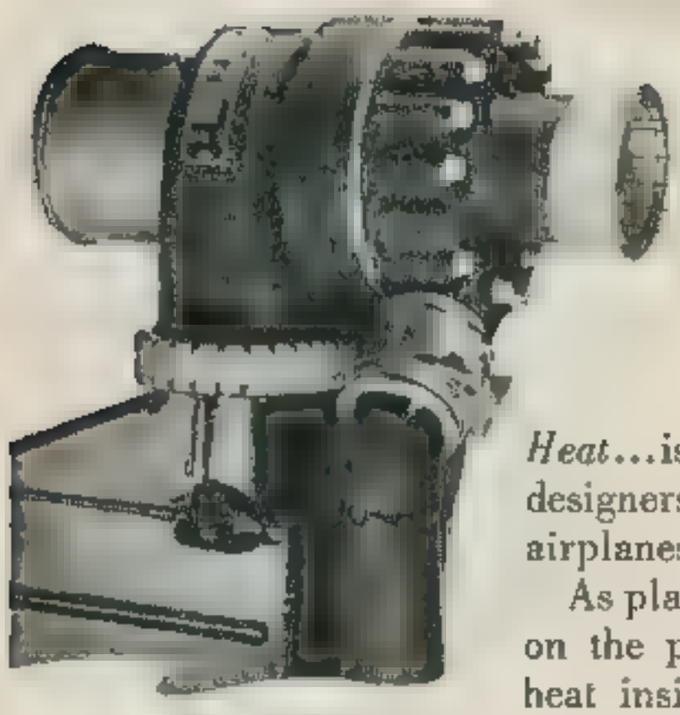

Cooling Power of Five Tons of Ice! *This midget refrigeration unit developed by AiResearch has the cooling capacity of 40 household refrigerators!*

Heat...is one of the toughest problems facing designers and builders of the new supersonic airplanes and missiles.

As planes fly higher and faster, air friction on the plane's outer skin develops enough heat inside to cook the pilot. In addition, miniature electronic and radar equipment becomes too hot to operate.

These are critical cooling problems. America's best scientific minds are working to solve them. Airframe and engine manufacturers, electronic engineers and refrigeration experts must all combine their talents if continued success is to be achieved.

The most advanced cooling equipment can best be designed and built by a firm like AiResearch which pioneered this field from the beginning. Nearly every postwar U. S. airplane is equipped with AiResearch pressurizing units, air conditioning units or complete systems.

Here you will find complete research, testing and manufacturing facilities to help you solve your cooling and pressurizing problems in the supersonic field. And AiResearch is staffed by skilled engineers and craftsmen accustomed to meeting the challenge of the "impossible."

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• ***AiResearch—Specialists in the design and manufacture of aircraft refrigeration equipment—is a leader in the following major categories:***

Air Turbine Refrigeration • Cabin Superchargers • Gas Turbines • Pneumatic Power Units • Electronic Controls
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AiResearch Manufacturing Company, Dept. E-11, Los Angeles 45, California

Sidney Maestre, $500, bonus of $11.00 and 120 common ($800, bonus of $11.00, and 120 shares); A. D. Simpson, $900, bonus of $11.00 and 120 common ($900, bonus $11.00 and 120 shares); N. S. Talbott, $700, bonus $11.00 and 120 common ($900, bonus $11.00 and 120 shares); Loyd Wright, $400, bonus $11.00 and 240 common ($300, bonus $11 00 and 240 shares); F. W. Ayers, $200, bonus $8.52; Harry Rogers, $500 and bonus $6.42; and Thomas A. Slack, $200 and bonus $6.42. **(#Director's fee.)**

• **United Air Lines.** President and director, W. A. Patterson, salary $72,028, retirement and group life insurance plan, $6597, and 5850 common shares, (1949: $62,500, $6915*, 10 preferred shares, 1150 common and 5000 management shares); executive vice president and director, Otis E. Kline, $6750, $385* and 7500 common; vice president, operations and director, J. A. Herlihy, $42,-561, $3223* and 2968 common ($37,500, $2536*, 968 common shares and 2000 management shares); vice president, passenger service, D. F. Magarrell, $23,773, $1608* and 1080 common ($20,500, 1216*; 80 common shares and 1000 management shares), vice president, sales, Harold Crary, $20,061, $3136*, 54 preferred shares and 3172 common ($21,000, $2975*, 54 preferred, 1172 common shares, and 2000 management shares); vice president, economic controls, Hal E. Nourse, $19,531, $1630* and 1080 common shares ($18,999, $1432*, 80 common and 1000 management); vice president, personnel, R. F. Ahrens, $19,523, $1493* and 1402 common ($19,000, $1314*, 2 common and 1000 management); vice president, traffic administration, R. W. Ireland, $22,-500, $2750*, 2045 common ($25,000, $2931*, 45 common and 2000 management); vice president, finance and property, Curtis Barkes, $17,140, $1137*, and 751 common ($15,666, $922*, 1 common and 750 management); secretary and assistant to president, S. P. Martin, $12,390, $836*, and 750 common ($12,000, $774*, 200 common and 750 management); comptroller, Carroll Blanchar, $12,650, $627* and 501 common $11,-700, $525*, 1 common and 500 management); treasurer and assistant secretary, A. M. deVoursney, $3333 and $154*; treasurer, N. B. Haley $11,525, $1698* ($13,000, $2071* and 500 management); and the following directors Martin C. Ansorge, salary $800, 750 common and 100 preferred shares ($900, 100 preferred and 750 common shares); Gardner Cowles, $500 salary, 1100 common, and 450 preferred shares ($500 and 1100 common shares); Justin W. Dart, $600 and 15,406 common ($500, 700 preferred and 15,406 common); Paul M. Godehn 600 common (600 common); Paul G. Hoffman, 7 preferred and 136 common (7 preferred and 136 common); Eric A. Johnston, $500, and 1000 common ($500 and 1000 common), John J. Mitchell, $600 and 4204 common ($800 and 2202 common). **(* Company contribution to retirement plan and officers' group life insurance plan.)**

• **Slick Airways, Inc.** Chairman of the board and director, Earl F. Slick, no salary, $249,000 debenture*, and 56,660 common shares (1949: no salary, $55,000 debenture* and 10,152 common shares); president, Thomas L. Grace, salary $12,320, $4000 debenture*, and 5286 common shares ($9150 and $4000 debenture*); executive vice president, William E. Hollan, $9764, $2000 debenture*, and 4151 common shares; vice president, secretary and director, Joseph F. Grant, $10,646, $2000 debenture*, and 3136 common shares ($8820, $2000 debenture*, and 1 common share); vice president, treasurer, and director, David R. Stewart, $10,646, $2000 debenture*, and $125 common shares; ($8497, and $2000 debenture*); assistant chairman of the board and director, Louis J. Moorman, 1 common share (1 common share); assistant secretary, John W. Walbert, $5351 and 500 common shares; and the following directors: Tom B. Slick, 50,000 common shares (50,000 common); Charles F. Urschel, 2500 common (2500 shares); Charles F. Urschel, Jr., 10,001 common (10,001 shares); W. B Dangmore, 1 common (1 share); Samuel R. Milbank, 1500 common and $14,000 debenture* (1500 shares and $14,000 debenture*).

(* 4% convertible income debenture.)

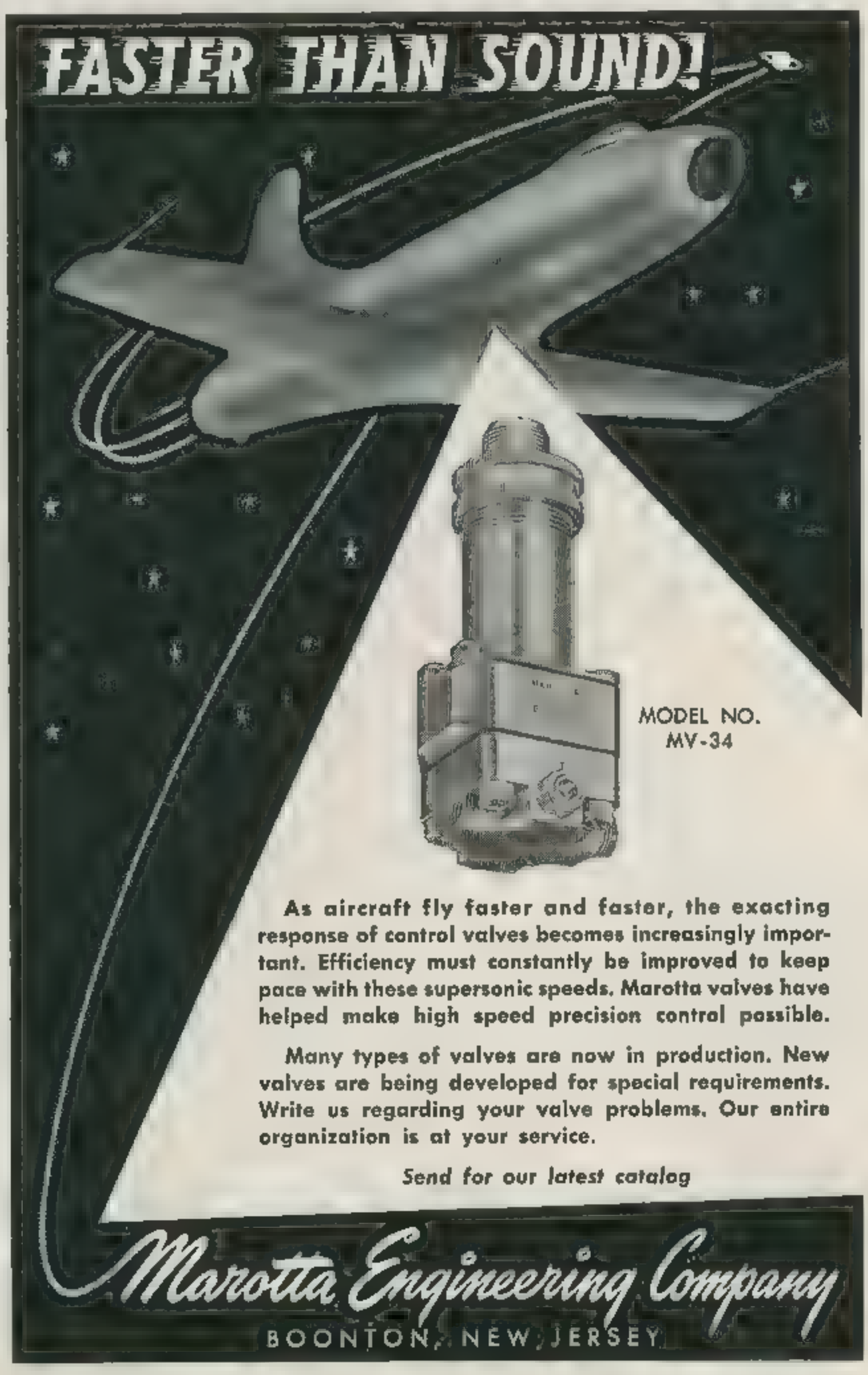
Local Service Airlines' Salaries

More 1950 salaries and stock holdings of executives and directors have been announced by the following local service airlines (1949 figures in parentheses):

• **Caribbean-Atlantic Airlines, Inc. of Puerto Rico.** President Dionisio Trigo, salary $10,-000 and 22,731 common shares (1949, salary $10,000 and 22,731 shares); vice president, Benigno Trigo, $3500 and 22,731 common shares ($3500 and 22,731); vice president, traffic, Frank H. Sheldon, $8400 and 10 common shares ($3100 and no stock); vice president, operations, José M. Sierra, $10,149 and 88 common shares ($10,000 and 1 share); treasurer, L. A. Lockhart, $7800 and 250 common shares ($7200 and 251 shares); secretary, Adolfo Valdes, no salary this year (1949: $1500 and no stock); and the following directors, and their holdings of common stock: Frank Ballester, 435; Henry G. Molina, 6500, Juan Cabrer, 708; Miguel Fernandez, 1597, and Juan Trigo, 17,208.

• **Pioneer Air Lines, Inc.** President and director, Robert J. Smith, salary, $18,125 and 26,818 common shares (1949: salary $12,000 and 26,818 shares); vice president and director, Harold B. Seifert, $10,800 and 264 common shares ($10,200 and 264 shares); vice president and director, H. L. Lawrence, $9000, and 15 common shares ($7500 and 15 shares); secretary-treasurer and director, Eugene W. Bailey, $9600 and 956 common shares ($8400 and 956 shares); chairman of the board, W. F. Long, $5000 and 27,291 common shares (27,291 shares); and the following directors: Gene Howe, 100 common shares (100 shares); Charles B. White, 499 common shares (200 shares); Raymond Pearson, 1500 common shares (1500 shares); J. Wesley Hickman, 545 common shares (823 shares).

• **Southern Airways, Inc.** President and director, Frank W. Hulse, salary $8829 and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Vital jet engine parts—
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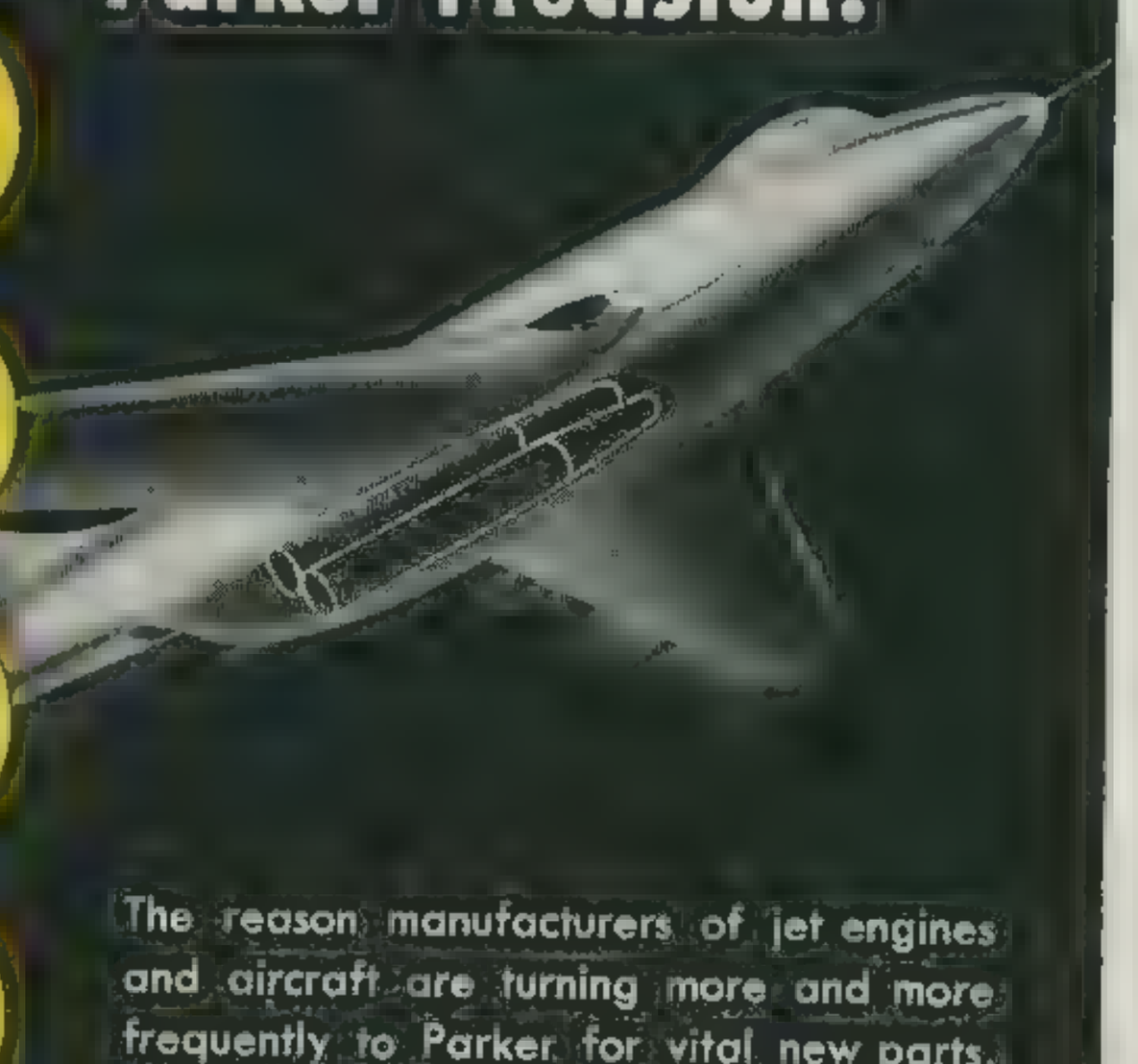

The reason manufacturers of jet engines and aircraft are turning more and more frequently to Parker for vital new parts, including valves and related components for fuel and hydraulic systems, is to be found in the skills and know-how of Parker craftsmen. They are skills and know-how that result in precision-machined parts, accurate in the minutest detail, that fit perfectly into the "Clock-Like" mechanisms of aircraft. They are skills and know-how that perhaps can solve a troublesome problem for you.

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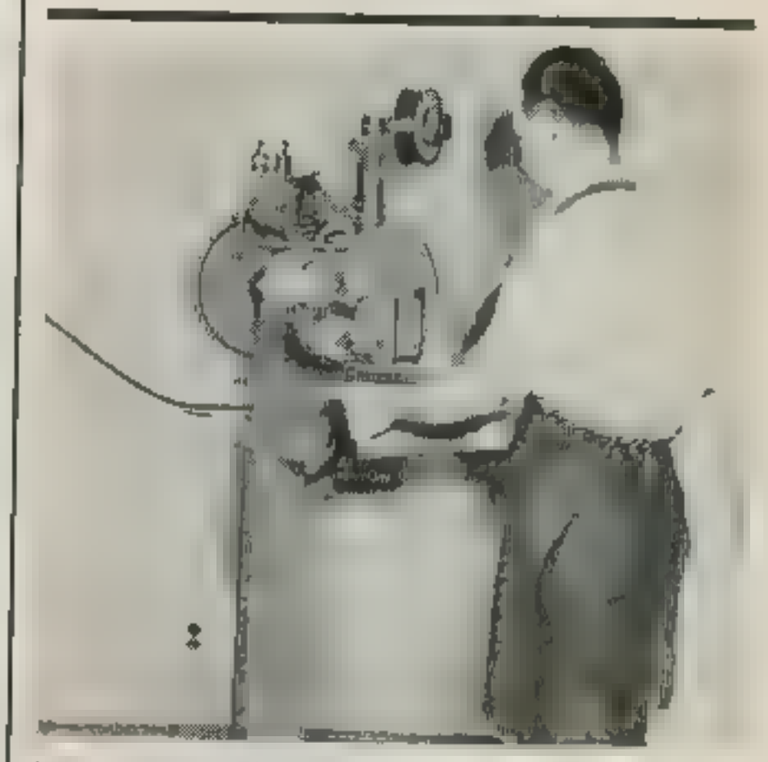


Parts Staple

A machine designed to bind aircraft sheet metal assemblies together in a manner similar to stapling sheets of paper has been developed by Heller Co.

Called the Heller Power Stapler, the machine is expected by the company to speed production of aircraft by removing the need for riveting or welding some parts. Says Heller, "the stapling process is faster and simpler than riveting and does not require pre-drilled holes."

The company discloses the Air Force already has expressed interest. Possible AF use of the tool would be in combat areas—where planes must be patched and repaired quickly with limited shop facilities.

No lightweight, the motorized stapler can plunge wire through 30 gage steel sheets and can handle greater thicknesses of such metals as aluminum. Address: 2135 Superior Ave., Cleveland 14.

Plane Omni Checker

Newest addition to the growing list of ground testers designed to check operation of omnirange and localizer receivers used in aircraft is a test set developed by the radio service shop of Van Dusen Aircraft Supplies, 2004 Lyndale Ave., S., Minneapolis, Minn.

The set was developed by Van Dusen with the aid of the electronics engineering staff of the University of Minnesota, according to the company. It says accuracy of its set in the VOR positions is ±½ degree. Omnirange receivers can be checked out on any heading by means of a simulated omni signal which is continuously variable from zero to 360 deg. and which is available as audio or modulated RF carrier. The RF carrier, modulated with 90 and 150c. audio, is available to check operation of the left, center, right operation of the localizer receiver.

PYRENE FIRE EXTINGUISHERS

Fully Charged—Ready For Immediate Use To Protect Your Property

Pyrene fire extinguishers are the most effective type for smothering all classes of fire in incipient stages, fires in flammable liquids or electrical equipment.

Uses only Pyrene fire extinguishing liquid, as other liquid may cause corrosion

VAPORIZING LIQUID—SMALL HAND PUMP TYPE

Auto Type
Capacity 1 Pint

Quickly kills incipient fires in gasoline, oil, wood, upholstery or electrical system. It is modeled after the one quart size and has special bracket for mounting on steering post above or below dash—out of the way, yet instantly available. Liquid is non-deteriorating and anti-freezing. Every motorist needs protection and will be proud of this compact, efficient safeguard.

No.	Mfr's List, Each	Style
M-C11	$12.00	Brass, with Auto Bracket

Twelve in a shipping carton.

VAPORIZING LIQUID—PUMP TYPE

Smothers all classes of incipient fires, particularly fires in flammable liquids and electrical equipment. Light, compact and easily operated. The double acting pump with rotating pick-up discharge is a steady 25 to 30 foot stream from any position. For motorcycles, airplanes and heavy vehicles, "shock absorber" construction and clamp type brackets for wall or steering post guard against wear from excessive vibration. Labeled by Underwriters Laboratories and approved by Factory Mutuals. Sold with charge and bracket.

Capacity 1 Quart

No.	Mfr's List, Each	Style
MC-21	$12.00	Brass, with Wall Bracket
M-C21T	20.00	Brass, with Heavy Vehicle Clamp Bracket

Twelve in a shipping carton.

Capacity 1½ Quarts

M-C31	22.00	Brass, with Clamp Bracket
M-C31T	23.00	Brass, with Heavy Vehicle Clamp Bracket

Six in a shipping carton.

EXTRA BRACKETS

Nos.	Mfrs. List Each	Type	Description
M-B2	$1.10	Wall	1 Qt. Standard
M-B3T	2.20	Clamp	1 Qt. Truck
M-B4T	2.75	Clamp	1½ Qt. Truck

VAPORIZING LIQUID—PRESSURE TYPE

Capacity 2 Quarts

For flammable liquid and electrical fires, and incipient fires in ordinary combustables. Discharged without pumping. Inner chamber, fitted with service air line valve, holds air under pressure; outer contains Pyrene liquid. Nozzle provides a solid 30 foot stream, fan shaped spray, or temporary shut off. Air pressure gauge and liquid level glass port facilitate inspection. Available with or without air pump. Labeled by Underwriters' Laboratories and approved by Factory Mutals.

No.	Mfr's List, Each	Style
M-C103	$59.00	Polished Copper Without Pump

One in a shipping carton.

VAPORIZING LIQUID—PRESSURE TYPE

Capacity 1 Gallon

This heavy duty unit is for industrial electrical and vehicular protection against all classes of incipient fire. Discharges a 30 to 40 foot stream by stored air pressure. Outer chamber contains Pyrene liquid, inner holds air pressure. Has built-in pump and service air line valve for renewing pressure. Equipped with flexible metal, rubber covered hose, pressure gauge and glass port for liquid level inspection. Labelled by Underwriters' Laboratories and approved by Factory Mutuals.

No.	Mfr's List, Each	Style
M-C43	$95.00	Polished Copper, with Pump

One in a shipping carton.

FIRE EXTINGUISHER LIQUID

For refilling vaporizing liquid type extinguisher. Non-conductor of electricity. Non-corrosive. Anti-freezing to 50° below zero F.

Nos.	Mfrs. List Each	Capacity	Quantity Carton
M-CR2	$ 1.90	1 Quart Can	20
M-CR4	6.50	1 Gallon Can	4
‡M-CR6	210.00	50 Gallon Drum	1

WATER TYPE—GAS CARTRIDGE OPERATED

Capacity 2½ Gallons

Available in either the seamless drawn shell or stainless steel welded shell. Both types tested to 500 pounds pressure. No annual recharging. Tough plastic nozzle discloses clogging. 40-foot stream of water discharged by means of pressure from carbon dioxide gas cartridge. Operated by inverting and striking plunger head on the floor. Effective on fires in ordinary combustibles. Labeled by Underwriters' Laboratories and approved by Factory Mutuals.

No.	Mfr's List, Each	Style
‡M-HW12	$44.00	Stainless Steel
M-H13	55.00	Seamless, Polished Copper
‡M-H14	61.00	Seamless, Chrome

One in a shipping carton.

REPLACEMENT PARTS

Nos.	Mfr's List, Each	Description
‡M-HV1	$3.30	Extra Pressure Relief Valve
M-HWC1	6.60	Extra Cartridge
‡M-HCR1	4.90	Recharging Empty Cartridges

No. M-HWC1 six in a shipping carton.

ANTI-FREEZE TYPE—GAS CARTRIDGE OPERATED

Capacity 2½ Gallons

Seamless shell. No side seams nor rivets. For the protection of unheated warehouses, docks, bridges and other locations subject to freezing temperatures and where the hazards consist of ordinary combustible material. Solution is made anti-freezing to 40° below zero F. by dissolving Pyrene Freez-Proof in water. Labeled by Underwriters' Laboratories and approved by Factory Mutuals. Includes charge packed separately.

No.	Mfr's List, Each	Style
M-W13	$57.00	Polished Copper
‡M-W14	63.00	Chrome Plated

One in a shipping carton.

REPLACEMENT PARTS

Nos.	Mfr's List, Each	Description
‡M-RV1	$ 3.30	Extra Pressure Relief Valve
M-WR1	11.20	Extra Anti-Freeze Charge and Cartridge
‡M-WCR1	4.90	Recharging Empty Cartridge

No. M-WR1 one in a carton.

‡Goods marked thus (‡) are not carried in stock and can be furnished only by shipment direct from factory.

VLCHEK MOTIV BRAND WRENCH DISPLAY BOARDS

Wrenches are made of heat treated special analysis steel, chrome plated with polished faces and loops. Boards are compact and can be attached to the wall or used as an easel.

PANEL BAR 15° DOUBLE OPEN END WRENCH DISPLAYS

30 Pieces

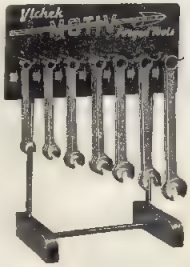
Display consists of 30 only Double Open End Wrenches Shipping Weight 9 lbs.

Contents:

Quantity	Nos.	Size of Openings Inches	Extreme Length Ins.
6	7021A	$\frac{1}{4}$–$\frac{11}{32}$	3⅛
6	7723	$\frac{5}{16}$–$\frac{3}{8}$	4½
6	7725B	$\frac{7}{16}$–$\frac{1}{2}$	5⅝
3	7027	$\frac{13}{32}$–$\frac{7}{16}$	6½
4	7729	$\frac{9}{16}$–$\frac{5}{8}$	7½
3	7731B	$\frac{11}{16}$–$\frac{3}{4}$	8½
2	7033C	$\frac{13}{16}$–1	9½
B51		Per Display	$13.85

One in a carton.

COMBINATION OPEN END AND BOX WRENCH DISPLAYS



22 Pieces

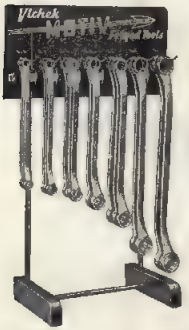
Display consists of 22 only Combination Open End and Box Wrenches Shipping Weight 6 lbs

Contents:

Quantity	Nos.	Size of Opening Inches	Extreme Length Ins.
4	X12	$\frac{5}{16}$	5⅞
4	X14	$\frac{7}{16}$	6¼
4	X16	$\frac{1}{2}$	6⅝
4	X18	$\frac{9}{16}$	7⅛
2	X20	$\frac{5}{8}$	8¼
2	X22	$\frac{11}{16}$	8⅞
2	X24	$\frac{3}{4}$	9¼
B52		Per Display	$16.15

One in a carton.

LONG PATTERN 30° ANGLE BOX WRENCH DISPLAYS



18 Pieces

Display consists of 18 only Long Pattern 30° Angle Box Wrenches Shipping Weight 6 lbs.

Contents:

Quantity	Nos.	Size of Openings Inches	Extreme Length Ins.
3	XB1214	$\frac{3}{8}$–$\frac{7}{16}$	8⅛
3	XB1416	$\frac{7}{16}$–$\frac{1}{2}$	8⅞
3	XB1618	$\frac{1}{2}$–$\frac{9}{16}$	9¾
2	XB1922	$\frac{9}{16}$–$\frac{11}{16}$	10
3	XB2024	$\frac{5}{8}$–$\frac{3}{4}$	11¼
2	XB2628	$\frac{3}{4}$–$\frac{7}{8}$	13⅝
2	XB3032	$\frac{7}{8}$–1	14⅞
B53		Per Display	$16.15

One in a carton.

TAPPET CHECK NUT WRENCHES

VLCHEK CHROME MOLY

Designed originally for tappet adjustment—now used wherever thinner jaws or extra leverage is required. Made of alloy steel. Chrome plated finish with heads polished and buffed.

Nos.	Each	Openings Milled, Ins.	Thickness of Head, Ins.	Extreme Lgth., Ins.
89	$0.80	$\frac{5}{16}$–$\frac{7}{16}$	$\frac{1}{4}$	8½
90	.80	$\frac{7}{16}$–$\frac{1}{2}$	$\frac{1}{4}$	8½
92	.85	$\frac{1}{2}$–$\frac{9}{16}$	$\frac{1}{4}$	8½
93B	.95	$\frac{9}{16}$–$\frac{5}{8}$	$\frac{11}{32}$	8½
93	.95	$\frac{5}{8}$–$\frac{11}{16}$	$\frac{11}{32}$	8½
94	1.10	$\frac{3}{4}$–$\frac{13}{16}$	$\frac{11}{32}$	8¼

Twelve in a package.

PANEL BAR 15° DOUBLE END WRENCHES

VLCHEK MOTIV BRAND

For the home mechanic and car owner. Made of high carbon steel, chrome plated with polished heads.

Nos.	Each	Size of Openings Inches	Extreme Length Ins.
7021A	$0.30	$\frac{1}{4}$–$\frac{11}{32}$	3⅛
7723	.35	$\frac{5}{16}$–$\frac{3}{8}$	4½
7725B	.40	$\frac{7}{16}$–$\frac{1}{2}$	5⅝
7027	.45	$\frac{13}{32}$–$\frac{7}{16}$	6½
7729	.55	$\frac{9}{16}$–$\frac{5}{8}$	7⅜
7731B	.75	$\frac{11}{16}$–$\frac{3}{4}$	8⅛
7033C	.90	$\frac{13}{16}$–1	9½
7035B	1.15	$1\frac{1}{16}$–$1\frac{1}{8}$	10½

Twelve in a package.

DOUBLE OPEN END WRENCHES

VLCHEK

Designed for discriminating mechanics. Maximum strength with minimum bulk. Overall head dimensions are small compared with openings—allowing operation in close quarters. Narrow streamlined jaws—hard but tough alloy steel. Chrome plated finish with bright head.

Nos.	Each	Size of Openings Inches	Extreme Length of Head Inches	Thickness Overall Head Size Inches
W1012	$0.65	$\frac{1}{4}$–$\frac{5}{16}$	$3\frac{15}{16}$	$\frac{7}{8}$	$2\frac{1}{32}$–$2\frac{9}{32}$
W1214	.75	$\frac{5}{16}$–$\frac{3}{8}$	$4\frac{3}{4}$	$\frac{9}{16}$	$2\frac{5}{32}$–$2\frac{9}{32}$
W1416	.85	$\frac{7}{16}$–$\frac{1}{2}$	$5\frac{1}{2}$	$1\frac{5}{64}$	$2\frac{9}{32}$–$1\frac{1}{32}$
W1618	.90	$\frac{1}{2}$–$\frac{9}{16}$	6	$\frac{3}{4}$	$1\frac{1}{16}$–$1\frac{1}{32}$
W1820	.95	$\frac{9}{16}$–$\frac{5}{8}$	$6\frac{1}{2}$	$\frac{25}{32}$	$1\frac{1}{32}$–$1\frac{3}{32}$
W1922	1.15	$\frac{11}{16}$–$\frac{11}{16}$	$7\frac{3}{4}$	$\frac{25}{32}$	$1\frac{3}{32}$–$1\frac{1}{16}$
W2024	1.15	$\frac{5}{8}$–$\frac{3}{4}$	$7\frac{3}{4}$	$\frac{25}{32}$	$1\frac{1}{16}$–$1\frac{1}{16}$
W2225	1.15	$\frac{11}{16}$–$\frac{13}{16}$	$7\frac{3}{4}$	$\frac{25}{32}$	$1\frac{1}{16}$–$1\frac{1}{16}$
W2426	1.50	$\frac{3}{4}$–$\frac{7}{8}$	$9\frac{1}{4}$	$1\frac{1}{16}$	$1\frac{1}{16}$–$1\frac{1}{16}$
W2428	1.70	$\frac{3}{4}$–1	10	$\frac{7}{8}$	$1\frac{1}{16}$–$1\frac{7}{8}$
W2528	1.50	$\frac{13}{16}$–1	$9\frac{1}{4}$	$1\frac{1}{64}$	$1\frac{9}{16}$–$1\frac{9}{32}$
W2830	1.70	$\frac{7}{8}$–1	10	$\frac{7}{8}$	$1\frac{1}{16}$–$1\frac{7}{8}$
W3032	2.25	$1\frac{1}{16}$–1	$10\frac{3}{4}$	$1\frac{1}{16}$	$2\frac{1}{32}$–$2\frac{9}{32}$
W3034	2.25	$1\frac{1}{16}$–$1\frac{1}{4}$	$10\frac{3}{4}$	$1\frac{1}{16}$	$2\frac{1}{32}$–$2\frac{9}{32}$
W3236	3.15	1 –$1\frac{1}{4}$	12	$1\frac{1}{16}$	$2\frac{9}{32}$–$2\frac{11}{32}$
W3440	3.15	$1\frac{1}{16}$–$1\frac{1}{4}$	12	$1\frac{1}{16}$	$2\frac{9}{32}$–$2\frac{11}{32}$
W3842	3.15	$1\frac{7}{16}$–$1\frac{1}{4}$	12	$1\frac{1}{16}$	$2\frac{9}{32}$–$2\frac{11}{32}$

Twelve in a package.

COMBINATION OPEN END AND BOX WRENCHES

VLCHEK

Combination open end and box wrenches—same opening on both ends. Narrow streamline jaws on open end—thin walled 15° box end, and a slender handle long enough to furnish the needed leverage. Made of alloy steel, accurately heat treated. Chrome plated with bright heads.

Nos.	Each	Size of Openings Inches	Extreme Length Inches
WBE12	$0.75	$\frac{3}{8}$	5⅜
WBE14	.75	$\frac{7}{16}$	6¼
WBE16	.85	$\frac{1}{2}$	6⅞
WBE18	.85	$\frac{9}{16}$	7½
WBE20	1.10	$\frac{5}{8}$	8⅛
WBE22	1.35	$\frac{11}{16}$	8⅞
WBE24	1.50	$\frac{3}{4}$	9¾
WBE26	1.65	$\frac{13}{16}$	10⅛
WBE28	1.85	$\frac{7}{8}$	11⅜
WBE30	2.15	$\frac{15}{16}$	12¼
WBE32	2.40	1	13¼

Twelve in a package.

VLCHEK MOTIV BRAND

Made of special analysis steel, chrome plated with polished faces and heads. Slender long bar. Streamlined jaws and thin walled box ends.

Nos.	Each	Size of Openings Inches	Extreme Length Inches
X12	$0.60	$\frac{5}{16}$	5⅛
X14	.65	$\frac{7}{16}$	6⅛
X16	.70	$\frac{1}{2}$	6⅞
X18	.75	$\frac{9}{16}$	7⅛
X20	.90	$\frac{5}{8}$	8¼
X22	.95	$\frac{11}{16}$	8⅞
X24	1.00	$\frac{3}{4}$	9¾

Twelve in a package.

WOOD SCRAPERS

HOOK

Cutter made of best grade Swedish steel hardened and tempered to razor blade edge. Precision honed, light as possible to prevent chattering or tearing. Removes paint and varnish dry, leaving smooth surface

Pistol Grip

Sturdily designed for heavier work—on floors or boats. Ideal for scraping borders or closets when sanding. Blade width 2½ inches. Length over all 8¼ inches.

75 ..... Each $1.10

One in a carton.

Splendid odd job type scraper. Adaptable for worn spots on floors, brush marks, runs and sags on finished surfaces. Readily eases sticking doors and drawers. Handsomely polished wood handle —comfortable to grip. Blade width 2½ inches. Length over all 5 inches.

25 ..... Each $0.55

One dozen in a display carton.

WOOD SCRAPER BLADES

Replacement blades for Scrapers Nos. 75 and 25.

25E ..... Each $0.15

One dozen in a tube.

WOOD SCRAPERS

HOOK

Narrow handy tool — fits in window sides. Quickly eases sticking windows and drawers. Removes paint from glass with little effort without digging into sash or moulding. Made of durable nickel plated steel. Blade width 1¼ inches. Length over all 4¾ inches.

15 ..... Each $0.30

One dozen in a display carton.

WOOD SCRAPER BLADES

Replacement blades for No. 15 wood scrapers.

15E ..... Each $0.12

IRON BLOCK PLANES

DEFIANCE

Non-Adjustable

Highest grade tool steel cutters — properly tempered and polished. Japanned with japanned lever cap. Tempered cutter. Black hardwood knob. Bottom milled with ground sides. Length 7 inches, width cutter 1⅝ inches.

1247 ..... Each $1.65

One in a carton.

IRON BLOCK PLANES

WORTHINGTON

Bottom a fine gray iron casting. Bottom and sides milled and polished. Inside red enameled. Red enameled cast cap with lever cam lock. Plane iron one piece of good quality steel carefully hardened and tempered. Tropical hardwood knob handle, mahogany lacquer finish.

Adjustable

Width of cutter 1⅝ inches; length 7 inches. Weight each 1½ lbs.

2200W ..... Each $2.50

One in a carton.

Non-Adjustable

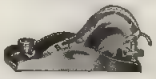
Width of cutter 1⅝ inches; length 7 inches. Weight each 1⅝ lbs.

1100W ..... Each $2.25

One in a carton.

STANLEY

Highest grade tool steel cutters scientifically tempered—fully polished.
Smooth finished—perfectly trued sides and bottoms.
Sturdy enameled cast iron frames.
"Hand-y" grips make it easy to hold the plane



Adjustable Knuckle Joint Lever

Steel lever or cap snaps into position and locks cutter when replaced. Cutter rests on its seat at any angle of 20°, and is adjustable endwise and sidewise. Throat is adjustable for coarse or fine work. Nickel trimmings, ground face and sides. Handy grip. Cutter width 1⅝ inches. Length 6 inches.

11 ..... Each $6.00

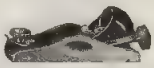
One in a carton.

All Steel School—Low Angle

A "boy-proof" plane! It is practically unbreakable. Made up of three separate units: cap, cutter and bottom; complete with adjustment locked in place. Cutter adjustment allows for simple replacement, eliminates thread stripping and cannot be lost once assembled in plane. Lever cap thumb screw not removable; finger rest riveted in position on plane bottom. Cutter rests at low 12° angle. Cutter width 1⅝ inches. Length 6 inches.

118 ..... Each $5.00

One in a carton.



Adjustable Low Angle—Adjustable Throat
Handy Grip

Easy to plane across hardwood—cutter at low 12° angle Bottom and sides milled and ground. Black finish lever cap and trim. Cutter width 1⅝ inches. Length 6 inches.

60½ ..... Each $4.65

One in a carton.

Adjustable

Cutter rests on its seat at an angle of 20°, and is adjustable endwise and sidewise. Throat is adjustable for coarse or fine work. Japanned trimmings. Handy grip Cutter width 1⅝ inches. Length 6 inches.

9½ ..... Each $3.65

One in a carton.

Adjustable

Cutter adjustable endwise by steel screw. Bottom and sides milled and ground. Rosewood knob—japanned trimmings. Width cutter 1⅝ inches. Length 7 inches.

220 ..... Each $3.15

One in a carton.

Non-Adjustable

Bottom is milled — sides and bottom ground. Rosewood knob Lever cap polished and nickel plated. Width cutter 1⅝ inches. Length 7 inches.

110 ..... Each $2.85

One in a carton.

Non-Adjustable

Bottom is milled and ground. Nickel plated lever cap. Japanned sides and trimmings. Width cutter 1⅝ inches. Length 5½ inches

102 ..... Each $1.90

One in a carton.

Non-Adjustable
Midget Size

A handy little plane. Without handle. Sides and trimmings japanned. Width cutter 1 inch. Length 3½ inches.

101 ..... Each $1.20

One in a carton.

PNEUMATIC RIFLES

SHERIDAN SILVER STREAK

Bantam Weight—SM/M (.20 Cal.)—Single Shot

A streamlined bantam-weight, fast handling, tough and powerful pneumatic rifle. Take-down design with stock readily removed, makes a flat compact package for suitcase or bike carrier. Over and under construction with rigid-mount rust-proof barrel and piston tube, and adjustable open sights. Full length Mannlicher type walnut stock. Bolt action. Single shot. Automatic "Fire-proof" safety. Sturdy valving mechanism with "Locked-In" charge. Silver satin finish. Length overall 37 inches. Weight 5 pounds.

S-C ..... **Fair Traded Each $23.95**
One in a carton.

COMPRESSED AIR RIFLES

BENJAMIN SUPER SINGLE SHOT

With Hand Pump—Breech Loading—Bolt Action Hammer Fire—Hair Trigger—Safety Lock.

Ideal for shooting Lead or Steel Air Rifle Shot, and caliber .177 or .22 Lead Pellets and Darts.

Streamlined Hand Pump has been improved for quick and easy pumping under any conditions, while standing erect or sitting, without fatigue.

Shooting Force is Adjustable, depending upon air pressure—will penetrate up to 1 inch in soft pine. Seven or eight pump strokes supply ample power for average use. **Hair Trigger Firing**—without forward lunge or recoil. Length overall 35 inches. Gun barrel 23 inches long. Front blade sight; rear V sight is adjustable for windage. Gun-metal finish barrel. Walnut finish turned stock and pump handle. Very fine trigger pull 2 to 3 pounds. Net weight 4 pounds.

S-310—Smooth bore—for shooting lead or steel air rifle shot; will group 2 inches from rest at 15 to 20 yards; including 500 Steel Rifle Shot.

S-310 ..... **Fair Traded Each $20.00**

S-312—Rifled—for shooting caliber .22 lead pellets which fit tight in rifled grooves; will group 1 inch from rest at 15 to 20 yards; including 250 Cal. 22 Benjamin H-C Pellets.

S-312 ..... **Fair Traded Each $22.25**

S-317—Rifled—for shooting caliber .177 lead pellets which fit tight in rifled grooves. Will group 1 inch from rest at 15 to 20 yards; including 250 Cal. .177 Benjamin H-C Pellets.

S-317 ..... **Fair Traded Each $19.50**

Note: Grouping 2 inches from rest at 15 to 20 yards means that if rifle is held in a machine rest and accurately sighted on a target 15 to 20 yards away you will get a pattern not over 2 inches in size by shooting with approximately same air pressure each time, providing, of course, good quality shot is used since shot which is not uniform in size or out of shape will naturally not be accurate

COMPRESSED AIR RIFLES

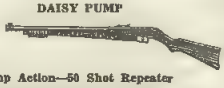
DAISY DEFENDER

Lever Action—Repeater

Designed expressly for marksmanship training. Has forced feed shooting barrel for shooting lead or steel BB shot. Gun blued metal parts. Full oval stock and full fashioned forearm of lustrous Fiberon which is stronger than wood. Has pistol grip and non-slip butt grooves. Secret pocket in butt of stock has sliding door, holds shot or private possessions. Two rear sights in one, a flick of the thumb sets open sight or peep sight. Also adjustable for windage or elevation. Husky sling strap attaches to barrel at two points; long for carrying, shorter for target work. Length overall 36½ ins. Shipping weight per carton of ten 34 lbs.

S-141 ..... Mfrs. List Each $8.00 ..... **Each $8.90**
One in a carton; ten in a shipping carton.

DAISY PUMP



Pump Action—50 Shot Repeater

Force feed—takedown. Metal parts blued gun steel. "Gold-engraved" jacket. Adjustable sight. "Non-slip", pistol grip stock. Length overall 37 inches.
Weight 3¼ pounds—with 1 tube of shot.

S-25 ..... Mfrs. List Each $8.00 ..... **Each $8.90**
One in a carton. Ten in a shipping carton.

DAISY RED RYDER CARBINE

"Western Carbine" type with Lightning Loader—lever action 1000 shot repeater. Genuine western style carbine ring anchored in receiver jacket—16 inch leather saddle thong attached to ring. Red Ryder brand on stock. Gun-metal finish barrel with "Gold" colored bands and front sight. Barrel length 24 inches. Rich walnut finish full oval pistol grip stock and full-length hand hold. Front blade sight. Rear V-sight adjustable for elevation. Trigger pulls 2 to 3 lbs. Weight 3¼ pounds—with 1 tube of shot.

S-111 ..... Mfrs. List Each $5.75 ..... **Each $6.40**
One in a carton. Ten in a shipping carton.

DAISY

Lever Action—1000 Shot Repeater

A husky, chunky, automatic 1000 shot repeater. Gun blued metal parts. Natural finished hardwood stock. Knife front sight; open rear sight. Length overall 36 ins. Shipping weight per carton of ten, 27 lbs.

S-155 ..... Mfrs. List Each $5.00 ..... **Each $5.55**
One in a carton; ten in a shipping carton.

DAISY

Lever Action—350 Shot Repeater

A husky, chunky, automatic 350 shot repeater. Gun blued metal parts. Natural finished hardwood stock. Knife front sight; open rear sight. Length overall 33 ins. Shipping weight per carton of ten, 29 lbs.

S-102 ..... Mfrs. List Each $4.00 ..... **Each $4.50**
One in a carton; ten in a shipping carton.

AIR RIFLE TARGET OUTFITS

DAISY 2-WAY

With Convertible Pump Gun

Two guns in one with mounted 2-Power Scope; two kinds of ammunition; two sets of targets.

S-325 ..... Mfrs. List Each $11.50 ..... **Each $12.75**
One in a carton; ten in a shipping carton.

DAISY GUN-N-SCOPE

THE DAISY *Sharp Shooter* TARGET OUTFIT

Outfit consists of the No. S-111 Red Ryder 1000 shot carbine Air Rifle with attached 18 inch, 2 power scope sight. One bell ringing target with 25 target cards, 10 packs of B-B's and shooting manual.

S-311 ..... Mfrs. List Each $8.70 ..... **Each $9.65**
One in a carton; ten in a shipping carton.

TARGET FACES

SHERIDAN

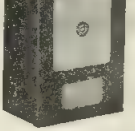
Made of 4¾x6 inch card stock, with space provided for competitive match information.

S-39—Fair Traded
Per 100 $0.75

100 sheets in a package.
Sold in Full Packages of 100 Sheets Only.

TARGETRAPS

SHERIDAN



A compact target holder backed with a no-splash baffle. Handle makes it readily portable; has wall hanger and flat base for placing indoors or outdoors.

S-775—Fair Traded
Each $7.75

One in a carton.

BELL TARGETS

CROSMAN

Gives an instant check on shooting skill, as 4 inch gong registers each bullseye. Metal frame holds standard paper target inserts. Stands alone or can be hung up.

S-200 ..... Mfrs. List Each $2.00 ..... **Each $2.25**

IMPERIAL POCKET KNIVES

OFFICIAL HOPALONG CASSIDY TRAIL POCKET KNIFE DISPLAYS

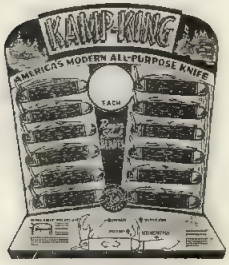
A Hammer Brand Product

Display consists of twelve (12) Official Hopalong Cassidy Trail pocket knives with three blades; one large clip blade; one pen blade; and one combination screwdriver and cap lifter blade. Celluloid handles with a reproduction of Hopalong Cassidy and his horse. Blades are made from high carbon cutlery steel, fully polished. Nuloy bolsters are shackle. Linings are of solid brass and spring of polished steel. Each knife is equipped with a plastic Hopalong Cassidy belt loop. Length of knives closed 3⅝ ins. Mounted twelve on a attractive Hopalong Cassidy display card.

S-HC1 ..... **Per Display $11.76**
Each .98

One display in a carton.

KAMP KING BOY SCOUT TYPE POCKET KNIFE DISPLAYS



A Hammer Brand Product

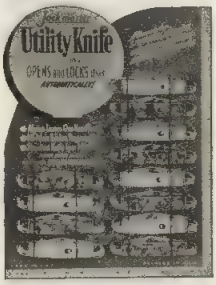
Display consists of twelve (12) four bladed Boy Scout type knives. Blades consist of one large 2½ inch master spear blade, can opener, combination screwdriver and cap lifter, and leather punch. All blades are made of special high carbon cutlery steel, full mirror-polished. Handles are solid simulated black stak. Each knife is equipped with shackle, nickel type bolsters and brass linings. Every knife is precision built with large, full, comfortable, perfectly ovalled handles and are powerfully put together with large, heavy-duty rivets that are concealed under handle. Length closed 3¾ inches. Mounted one dozen on an eye-catching, four-color counter display card.

S-611 ..... **Per Display $16.20**
Each $ 1.35

One display in a carton.

IMPERIAL POCKET KNIVES

JACK-MASTER UTILITY PUSH BUTTON POCKET KNIFE DISPLAYS



A Hammer Brand Product

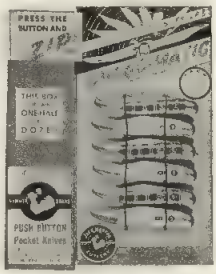
Press the button and Zip it opens and locks itself.

Display consists of twelve (12) serpentine pattern Jack-Master Utility Push Button Pocket Knives with one large 3¼ inch, high carbon razor steel, clip blade, highly polished. Full nickel type bolsters and brass linings. Perfectly ovalled, celluloid handles in assorted colors and imitation pearl. Length of knife closed 3¼ ins. Mounted twelve on a eye-catching, counter display card.

S-JM98PB ..... **Per Card of 12 $13.20**
Each $1.10

One card in a carton.

JACK-O-MATIC SAFETY PUSH BUTTON POCKET KNIFE DISPLAYS



A Hammer Brand Product

Press the button and Zip it opens and locks itself.

Display consists of twelve (12) Jack-O-Matic Push Button Pocket Knives with one switch master, clip blade for all outdoor purposes. Blade is of the finest cutlery steel, scientifically hardened and tempered and fully polished. Equipped with automatic push button opening with safety lock. Full nickel type bolsters. Perfectly ovalled solid celluloid handles in Mother-of-pearl and candy stripe colors. Length of knife closed 4¼ ins. Mounted six on an eye-catching, four-color counter display card and six in a cardboard box for reserve stock.

S-JM99PB ..... **Per Display $13.20**
Each $ 1.10

One display in a carton.

IMPERIAL POCKET KNIVES

SPORTSMASTER OUTDOOR KNIFE DISPLAY

A Hammer Brand Product

The ideal outdoor knife for camping, hunting, fishing, etc. Display consists of twelve (12) knives. Knives have graceful, correctly designed blade for all outdoor purposes. Solid celluloid handles in imitation mother-of-pearl and assorted colors. Every knife is precision built with large, full, comfortable, perfectly ovalled handles and are powerfully put together with large, heavy-duty rivets that are concealed under handle.

Switch master clip blade is of the finest carbon razor steel, electrically tempered and hand edged. Bolsters are of durable, long wearing nickel alloy. Length of blade 3¼ inches, length of knife closed 4¼ inches.

Mounted six on an eye-catching, four-color counter display card and six in a cardboard box for reserve stock.

S-1409/157 ..... **Per Display $7.20**
Each $0.60

One display in a carton.

SPORTSMASTER OUTDOOR KNIFE DISPLAYS

A Hammer Brand Product

A heavy duty, outdoor knife for camping, hunting, fishing, etc. Display consists of twelve (12) knives. Two Blades —one large 3¾ inch switch blade made of high carbon, stainless steel, electrically tempered and mirror polished. One combination fish scaler, hook disgorger and bottle-cap lifter blade of high carbon stainless steel, mirror polished. Imitation pearl handles. Full nickel type bolsters. High carbon, stainles steel springs. Brass linings. Length of knives closed 5 ins. Mounted one dozen on a eye-catching, four color, counter display card.

S-JM941 ..... **Per Display $13.20**
Each $ 1.10

One display in a carton.

HEDDON'S TINY RUNT

Sinking

This is a perfect miniature of the famous "River Runt Spook". Excellent for bass, wall-eyes, pike trout, crappies, white bass and steel head. Sinks slowly. Made of plastic and is equipped with two No. 6 treble hooks. Length 2¼ inches. Weight 1/3 ounce.

Nos.	Each	Color
S-350SO	$1.25	Spotted Orange
S-350RH	1.25	White, Red Head
S-350RHF	1.25	Red Head, Flitter
S-350XRY	1.25	Yellow Shore Minnow
S-350XRW	1.25	Red & White Shore Minnow
S-350XBW	1.25	Black & White Shore Minnow

One in a box; one dozen in a carton.

HEDDON'S MIDGET DIGIT RIVER RUNT SPOOK

Sinking

A plastic lure, the smallest of the River Runt family, is a favorite of the light tackle enthusiast and deadly for walleyes, bass, pike and larger pan fish. Casts like a bullet, wiggles like mad. Equipped with two No. 6 treble hooks. Length 1⅝ inches. Weight ⅓ ounce.

Nos.	Each	Colors
S-9020L	$1.35	Yellow Perch Scale
S-9020RB	1.35	Rainbow
S-9020RH	1.35	White, Red Head
S-9020XRG	1.35	Green Shore Minnow
S-9020XRY	1.35	Yellow Shore Minnow
S-9020XRS	1.35	Silver Shore Minnow
S-9020XRW	1.35	Red and White Sh. Minnow
S-9020XBW	1.35	Black & White Sh. Minnow

One in a box, one dozen in a carton.

HEDDON'S MIDGET DIGIT RIVER RUNT SPOOK ASSORTMENTS

Consists of twelve baits assorted in the best selling colors.

S-9020DC _____ Per Assortment $16.20

One assortment in a carton.

HEDDON'S MIDGET RIVER-RUNT-SPOOK

Sinking

Extremely popular with the light tackle angler. Sinks slowly and has excellent action Especially effective for large and small mouth bass, white bass and walleyes and other game fish including brown and rainbow trout. Especially suitable for use with light action rods. Equipped with two No. 2 treble hooks. Length of body 2⅛ inches. Weight ⅝ ounce.

Nos.	Each	Color
S-9010RB	$1.35	Rainbow
S-9010RH	1.35	White, Red Head
S-9010L	1.35	Yellow Perch Scale
S-9010M	1.35	Pike Scale
S-9010P	1.35	Shiner Scale
S-9010XRY	1.35	Yellow Shore Minnow
S-9010XBW	1.35	Black & White Sh. Minnow
S-9010XRG	1.35	Green Shore Minnow
S-9010XRS	1.35	Silver Shore Minnow
S-9010XRW	1.35	Red & White Sh. Minnow

One in a box, one dozen in a carton.

HEDDON'S MIDGET RIVER RUNT SPOOK ASSORTMENTS

Consists of twelve baits assorted in best selling colors.

S-9010DC _____ Per Assortment $16.20

One assortment in a carton.

HEDDON'S STANDARD RIVER-RUNT-SPOOK

Sinking

Slightly larger than the Midget. Sinks slowly and has fast wiggling action. Unexcelled for large and small mouth bass, pike, pickerel and walleyes. Equipped with two No. 1 treble hooks. Length 2½ inches. Weight ½ oz.

Nos.	Each	Colors
S-9110M	$1.35	Pike Scale
S-9110RB	1.35	Rainbow Minnow
S-9110RH	1.35	White, Red Head
S-9110XRG	1.35	Green Shore Minnow
S-9110XRS	1.35	Silver Shore Minnow
S-9110XRY	1.35	Yellow Shore Minnow
S-9110XBW	1.35	Black and White Shore Minnow
S-9110L	1.35	Yellow Perch Scale
S-9110XRW	1.35	Red and White Shore Minnow

One in a box, one dozen in a carton.

HEDDON'S STANDARD RIVER RUNT SPOOK ASSORTMENTS

Consists of twelve baits assorted in best selling colors.

No. S-9110DC _____ Per Assortment $16.20

One assortment in a carton.

HEDDON'S JOINTED RIVER RUNT SPOOK

Sinking

Similar to standard River Runt Spook only jointed. Sinks slowly. Has lively action with plenty of tail kick. Bass, walleyes and pike cannot resist it. Also excellent for large brown, rainbow and lake trout. Length 2⅝ ins. Two No. 2 treble hooks. Weight ⅝ oz.

Nos.	Each	Colors
S-9330RB	$1.50	Rainbow
S-9330L	1.50	Yellow Perch Scale
S-9330RH	1.50	White, Red Head
S-9330XRG	1.50	Green Shore Minnow
S-9330XRY	1.50	Yellow Shore Minnow
S-9330XRS	1.50	Silver Shore Minnow
S-9330XRW	1.50	Red and White Shore Minnow
S-9330XBW	1.50	Black and White Shore Minnow

One in a box, one dozen in a carton.

HEDDON'S JOINTED RIVER RUNT SPOOK ASSORTMENTS

Consists of twelve baits assorted in the best selling colors.

No. S-9330DC _____ Per Assortment $18.00

One assortment in a carton.

HEDDON'S FLOATING RIVER RUNT SPOOK

Floating-Diving

Floats when at rest. When retrieved dives with a wiggling motion to a depth of a foot or two, depending upon speed of reeling. Ideal for shallow water or over weed beds close to the surface. A "killer" for large mouth bass, pike, pickerel and even muskies. Equipped with two No. 1 treble hooks. Length 3 inches. Weight ½ ounce.

Nos.	Each	Colors
S-9400RH	$1.35	White, Red Head
S-9400XRW	1.35	White and Red Shore Minnow
S-9400P	1.35	Shiner Scale
S-9400L	1.35	Yellow Perch Scale
S-9400XRG	1.35	Green Shore Minnow
S-9400XRS	1.35	Silver Shore Minnow
S-9400XRY	1.35	Yellow Shore Minnow
S-9400XBW	1.35	Black, White Shore Minnow
S-9400RB	1.35	Rainbow
S-9400M	1.35	Pike Scale

One in a box, one dozen in a carton.

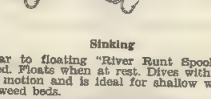
HEDDON'S FLOATING RIVER RUNT SPOOK ASSORTMENTS

Consists of twelve baits assorted in the best selling colors.

No. S-9400DC _____ Per Assortment $16.20

One assortment in a carton.

HEDDON'S JOINTED FLOATING RIVER RUNT SPOOK



Sinking

Similar to floating "River Runt Spook" only jointed. Floats when at rest. Dives with a wiggling motion and is ideal for shallow water or over weed beds.

Excellent for bass, northern pike and muskies. Length 3⅞ ins. Two No. 1 treble hooks. Weight ⅜ oz.

Nos.	Each	Colors
S-9430RB	$1.50	Rainbow
S-9430L	1.50	Yellow Perch Scale
S-9430RH	1.50	White, Red Head
S-9430XRG	1.50	Green Shore Minnow
S-9430XRY	1.50	Yellow Shore Minnow
S-9430XRS	1.50	Silver Shore Minnow
S-9430XRW	1.50	Red and White Shore Minnow
S-9430XBW	1.50	Black and White Shore Minnow

One in a box, one dozen in a carton.

HEDDON'S JOINTED FLOATING RIVER RUNT SPOOK ASSORTMENT

Consists of twelve baits assorted in the best selling colors.

S-9430DC _____ Per Assortment $18.00

One assortment in a carton.

POCKET WATCHES

INGERSOLL SWEEPSTER

A thin and smartly designed, shockproof pocket watch. Chrome plated case. Plain back, easy-to-read numerals and attractive hands. Red full sweep second hand makes a complete circle of the dial. Seconds indicated on the outer edge of the dial. Unbreakable crystal. Standard beat movement.

Nos.	F.T. Each	Type Dial
S-3820-11	$3.95	Plain
S-3830-11	4.95	Luminous

One in a box; ten in a carton.

WESTCLOX POCKET BEN

A thin, sturdy and smartly styled pocket watch with a nickel plated case. Size 1⅛ inches in diameter, ⅝-inch thick. New type bow and crown. Two-tone etched silver dial with black numerals and pierced hand. Clear, unbreakable crystal. Non-magnetic hair spring.

Nos.	F.T. Each	Type Dial
S-624	$3.50	Plain
S-634	4.50	Luminous

One in a box.

WESTCLOX SCOTTY

A good looking, reliable time-keeper with the same sturdiness that characterizes all Westclox watches. Close fitting bezel and back. Thin and smartly designed nickel plated case. Plain black, easy-to-read numerals and attractive hands harmoniously contrast with rich silvered dial. Non-breakable crystal. Rust-resistant hair spring.

S-615 ..... F.T. Each $2.95

One in a box.

POCKET WATCH DISPLAYS

WESTCLOX SCOTTY

Display consists of six (6) Scotty watches securely fastened on an attractive and colorful display which is ideal for counter, shelf, window or show case.

Contents:

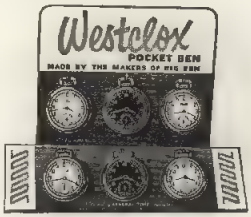
Quan.	No.	Type	F.T. Each
6	S-615	Scotty	$2.95

S-663 ..... F.T. Each $17.70

One in a carton.

POCKET WATCH DISPLAYS

WESTCLOX POCKET BEN



Assortment consists of six (6) Pocket Ben watches securely fastened on an attractive and colorful display which is ideal for counter, window, shelf or show case.

Contents:

Quan.	No.	Type Dial	F.T. Each
4	S-624	Plain	$3.50
2	S-634	Luminous	4.50

Size of display: width 10⅝ ins.; height 8¼ ins.

S-644 ..... F.T. Each $23.00

One in a carton.

CHILDREN'S WRIST WATCHES

INGERSOLL HOPALONG CASSIDY

A small size wrist watch with chrome finished case, and stainless steel back. Gray dial with illustration of Hopalong Cassidy. Red hands and numerals. Shockproof Standard beat movement. Unbreakable crystal. Each watch signed with a personal message from Hoppy. Black leather Cowboy wrist strap.

S-3412-21 ..... F.T. Each $6.95

One in a gift box; ten in a carton.

CHILDREN'S WRIST WATCHES

INGERSOLL CINDERALLA

A small size, shockproof wrist watch. Has chrome finished case and pink dial with Cinderella in her blue gown. Shockproof. Standard beat movement. Unbreakable crystal. Blue wrist strap. Watch is mounted on a transparent plastic slipper.

S-1202-21 ..... F.T. Each $6.95

One in a box; ten in a carton.

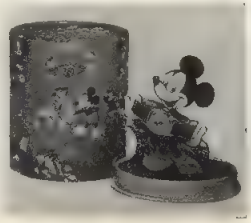
INGERSOLL SNOW WHITE

A dainty, small size Snow White shockproof wrist watch with standard movement. Has chrome case and stainless steel back. Colorful picture of Snow White with silver background on face of watch. Vermillion colored strap of sturdy washable ribbed fabric. Watch is displayed in a gleaming, colorful, novel box with full color design from Walt Disney picture. Unbreakable mirror is mounted on easel back.

S-7812-21 ..... F.T. Each $6.95

One in a carton.

INGERSOLL MICKEY MOUSE



A character wrist watch with a chrome finished case, stainless steel back. Red numerals. Colorful Mickey Mouse tells time with his hands Shockproof. Standard beat movement. Unbreakable crystal. Washable red vinylite strap.

Nos.	F.T. Each	Size
S-5317-21	$6.95	Small
S-5316-21	4.95	Regular

One in a gift box; ten in a carton.

ROLLER SKATES
UNION

The tops, trucks, clamps and stampings are made of cold rolled steel. Bright nickel plated oscillating trucks with live rubber cushions. Fitted with No S-SCB double ball race and 18 ball bearings, grain leather straps, half strap heel, foot plates and toe clamps. Extends from 8¼ to 10⅜ inches. Shipping weight per carton of twelve pair, 55 lbs.

S-58C ..... Per Pair $5.00
One pair in a carton; twelve pair in a shipping carton.

Same as the above except for smaller boys and girls. Extends from 7 to 8 inches. Shipping weight per carton of twelve pair, 51 lbs.

S-48C ..... Per Pair $5.00
One pair in a carton; twelve pair in a shipping carton.

WINCHESTER

Modified girder type frame with bridge construction, foot plate reinforced with sturdy flange, nickel plated. Fitted with live rubber shock absorbers. Metal heel plate of practical design. Leather heel straps. Single row ball bearing rolls, double tread for long wear, made to stand up under long service. Free wheeling for easy and comfortable skating. Skate extension 8 to 10⅛ inches. Clamp extension 2½ to 3½ inches. Shipping weight per carton of twelve pair, 46 lbs.

S-3536 ..... Per Pair $3.25
One pair in a carton; twelve pair in a shipping carton.

GLOBE SPECIAL

Two-piece metal wheels with 16 ball bearings. Welded three-piece chassis. Rubber shock absorbers. Leather straps with sponge rubber instep pads. Bright nickel plated finish. Extension from 7¼ to 10½ inches. Shipping weight carton of twelve pair, 45 lbs.

S-63 ..... Per Pair $3.95
One pair in a carton; twelve pair in a shipping carton.

ROLLER SKATES
GLOBE STANDARD

Two-piece wheels with eight ball bearings. Welded three-piece chassis. Rubber shock absorbers. Leather straps. Bright nickel plated finish. Extension from 7¼ to 10¼ inches. Shipping weight per carton of twelve pair, 38 lbs.

S-36 ..... Per Pair $3.35

MARVEL STANDARD

Juvenile with Toe Clamps

Standard model for beginners. Welded two piece chassis, oiled steel finish. Plain bearing, balloon type steel wheels. Equipped with heel strap and key. Extends to 8¼ inches. Shipping weight per carton of 24 pairs, 47 lbs.

S-97 ..... Per Pair $1.95
All above one pair in a paper bag; twenty-four pair in a shipping carton.

MARVEL JUVENILE

Juvenile with Toe Caps

Just the skate for beginners. Welded two-piece steel chassis is oiled steel finish. Plain bearing balloon type steel wheels. Extends to 8¼ inches. Equipped with leather heel strap and laced leather toe strap and key. Shipping weight per carton of 24 pairs, 43 lbs.

S-197 ..... Per Pair $2.00
One pair in a paper bag; twenty-four pairs in a shipping carton.

ROLLER SKATE WHEELS
UNION

Steel. With self-contained double ball race. For S-48C, S-58C. Union roller skates; also other makes.

S-SCB ..... Each $0.25
250 in a carton.

ROLLER SKATE PARTS
UNION

For S-48C, S-58C, Extension Ball Bearing

Nos.	Description	Per Pair
S-240-72L	Toe clamps for left-hand skates	$0.20
S-240-72R	Toe clamps for right-hand skates	.20

Nos.	Part	Per 100
S-080-02	Axle nut (all alike)	$2.50
S-060-03	Axle nut washer (all alike)	1.10
S-220-01	Dust cap (all alike)	1.60
S-250-03	Adjustment binding bolt	1.60
S-080-03	Adjustment binding bolt nut	1.60
S-250-02	Toe clamp adjusting screw	3.00
S-070-02	Axles for self-contained rolls	8.00

ROLLER SKATE KEYS

Stamped Steel

For ice and roller skates. Bright finish, Hexagon nut wrench.

S-150-01 ..... Each $0.06
Loose, not packed

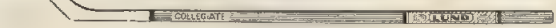
ICE HOCKEY STICKS

Made of first quality hardwoods. Laminated construction. All stocks, except youth's, have shellacked blades. Colorful tape on blades and shafts.

LUND COLLEGIATE

A full length patterned stick with 53-inch shaft. Assorted lies. Shipping weight per dozen, 18 lbs.

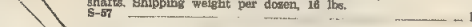
S-55 ..... Each $2.25



LUND CHALLENGER

A correctly proportioned stick for the younger boy. Assorted 46 and 48 inch shafts. Shipping weight per dozen, 16 lbs.

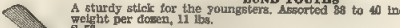
S-57 ..... Each $1.25



LUND YOUTHS

A sturdy stick for the youngsters. Assorted 36 to 40 inch shafts. Shipping weight per dozen, 11 lbs.

S-58 ..... Each $0.90



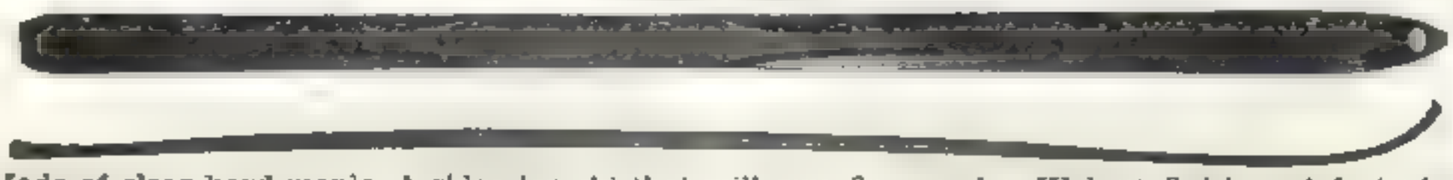
HOCKEY PUCKS

Made of firm, tough material. Diameter, 3 inches; thickness, 1 inch. Shipping weight per dozen, 5½ lbs.

S-R3600 ..... Each $0.35
One dozen in a carton.

SKIS

LUND MAPLE



Made of clear hard maple. A ridge top ski that will give fine service Walnut finish, red foot plate and red tip. Not mortised.

Nos. and Length Feet	Per Pair	Shipping Weight per ½ Dozen Pair
S-017-6	$13.50	37 lbs.
S-017-6½	13.50	43 lbs.
S-017-6¾	13.50	46 lbs
S-017-7	13.50	48 lbs.

One-half dozen pairs in a shipping carton.

LUND PINE

Made of select materials. Walnut brown finish with natural trim. Mortised. Complete with leather mortise straps with buckles.

Nos. and Length Feet	Per Pair	Shipping Weight per ½ Dozen Pair
S-018-4	$4.25	20 lbs.
S-018-5	6.00	25 lbs.
S-018-5½	6.50	30 lbs.
S-018-6	7.00	35 lbs.

One-half dozen pairs in a shipping carton.

SKI POLES

Ski poles of especially fine quality. Well proportioned, extra strong shafts. Carefully filled, lightweight, metal rings. First quality leather in grips, straps and filling. Steel ice pegs.

LUND PARAMOUNT

Aluminum shaft. Formed plastic grip and leather strap. Metal Ring. Assorted lengths, 45, 48 and 51 inches. Weight per pair, 2⅓ lbs.

S-32 _____ Per Pair $7.00

Tonkin cane shaft, duraloid covered. Leather wrist strap. Assorted lengths, 45, 48 and 51 inches. Weight per pair, 2½ lbs.

S-34 _____ Per Pair $3.50

LUND JUVENILE

Tonkin cane shaft, duraloid covered. Leather wrist strap. Length, 39 inches. Weight per pair, 2½ lbs.

S-35 _____ Per Pair $2.50

SKI WAX

LUND

A preparation to prevent snow from sticking to skis and toboggans in mild weather. 4 ounce can.

S-24 _____ Each $0.35

One dozen cans in a carton.

SKI TOE STRAPS

LUND

Made of best quality black strap leather. Fitted with buckle. Length 13 inches.

S-136 _____ Per Pair $0.40

One dozen pair in a bundle.

SKI BINDINGS

LUND TRAILMASTER

For all around use. Reverse front throw. Cable with heel spring. Toe straps (no sole clips). One set double-lug low hitches. Weight per pair, 5 lbs.

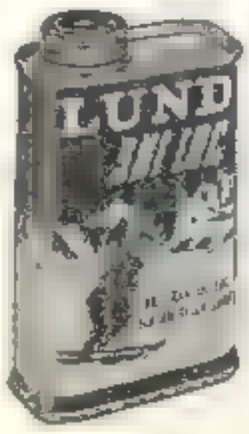
S-TB13 _____ Per Pair $6.50

LUND TRAILMASTER

Serviceable binding for general use. Provides adequate adjustment for size of boot. Regular heel clamps. Toe strapes. Heel plates. Weight per pair, 3½ lbs.

S-TE112 _____ Per Pair $3.50

SKI-LAC



LUND

A liquid lacquer type base or speed wax. 6 ounce can. Weight per dozen, 8 lbs.

S-25 _____ Each $1.25

One dozen in a carton.

RACER TOBOGGANS

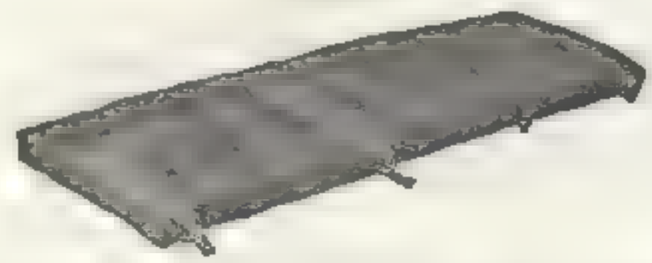
LUND

Made of selected, straight grained hardwood. Slat construction. Heavy leather loops hold the ½ inch cotton rope rail.

Nos. and Lgth., Ft	Each	Shipping Wt. Lbs.
S-40-6	$22.50	20
S-40-7	26.00	23
S-40-8	29.50	26

TOBOGGAN CUSHIONS

LUND



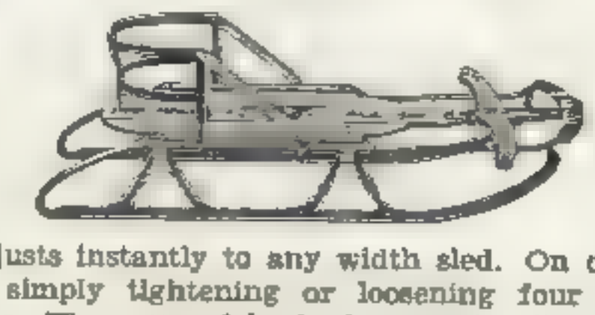
Top cover is of long wearing maroon plastic material. Underside is of heavy, water repellent red duck. Cushions are closely tufted with metal grommets. Edges are bound and the strong tapes are securely fastened.

Nos. and Lgth., Ft.	Each	For Tobaggons Lgth., Ft.	Shipping Wt., Lbs.
S-42—4½	$ 7.00	6	7
S-42—5½	8.50	7	9
S-42—6½	10.00	8	13

One in a carton.

SLED BACKS

FLEXIBLE FLYER

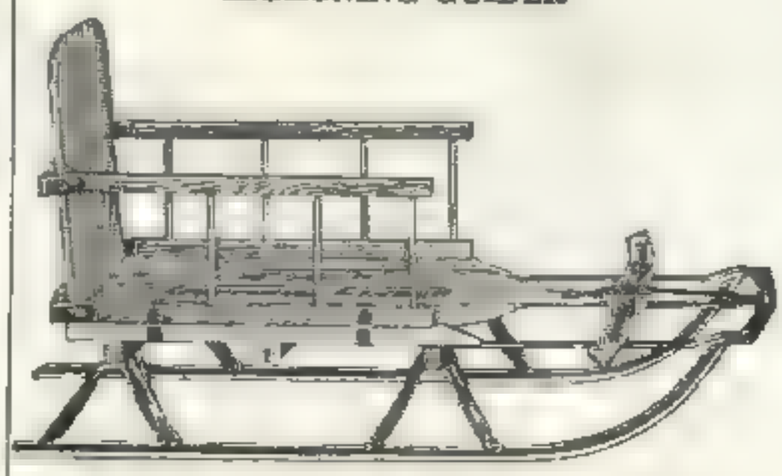


Adjusts instantly to any width sled. On or off by simply tightening or loosening four wing nuts. The curved back slopes naturally like a chair, and the white ash hand rails give extra protection. It is collapsible, and is practically unbreakable.

S-FF _____ Each $3.25

One in a carton.

LIGHTNING GUIDER



Will fit any size sled, easy to attach. Made of wood with adjustable back. Sufficient room for the baby, permitting the blanket to be tucked in.

S-100 _____ Each $2.00

One-half dozen in a shipping carton.

TELESCOPE SIGHTS
MOSSBERG

4 Power—Top Mounting—Internal Adjustment

With dovetail mount designed for Mossberg rifles Nos. S-144, S-146B, S-151M and S-152. Mount slides into dovetail grooves milled into the receiver of the rifle in manufacture. All scopes are 4-power. Lens surfaces are hard coated to increase light transmission, eliminate annoying reflections and to assure clear, sharp image. Accurate adjustments for windage and elevation after scope is mounted, without tools. Click screws on outside rear of scope tube move cross hair reticule inside the tube and have ¼ minute clicks. Field of view at 100 yards—20 feet. Length 14¼ inches. Weight 1 lb.

S-4M4 ..... **Fair Traded Each $9.95**

One in a catron.

MOSSBERG

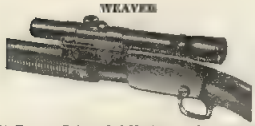
4 Power—Side Mounting—External Adjustment

Four power magnification. Coated lenses. Wide field of view, approximately 20 feet at 100 yards. Fine click adjustments for both windage and elevation, give ⅛ min. adjustment at 100 yards. Medium fine cross hair reticule, .001 inch hairs. Five lens optical system gives good illumination and clear definition without distortion or objectional color fringe. Cross hair reticule moves in flat plane horizontally and vertically. External adjustments for obtaining sharp definition of cross hair reticule. Scope is dismounted quickly by removing two screws. Adjustments in mount to compensate for any errors in mounting scope on rifle. Base will fit octagon as well as round surfaces. Length 14⅛ inches. Weight 1 lb.

S-2M4 ..... **Fair Traded Each $9.95**

One in a carton.

WEAVER



2½ Power—Internal Adjustment—Less Mount

Wide field of view with brilliant illumination and needle sharp definition clear to the edge of the field. Fast hairsplitting accuracy. Can be used in rain or snow. Hard coating on the lenses increases light transmission 30%. No front sight or rear sight, just the crosshairs to be aligned to the target. The eye can be moved sideways as much as a half inch and aim will be accurate. Tube diameter, 1 inch; length 10⅜ inches; objective lens .807 inches; eye distance 3 inches to 6 inches; field of view 43 feet. Weight scope only, 8¼ ounces. Focus, adjustable to users vision. Adjustments: Internal windage and elevation, graduated. ½ inch click.

Nos.	Fair Traded Each	Type Reticule
S-K2.5	$37.50	Crosshair
S-K2.5	37.50	Post and Crosshair

One in a carton.

When ordering Specify type of Reticule

TELESCOPE SIGHTS
WEAVER

Designed for the kind of rifle shooting that requires extreme accuracy. They are as sturdy as hunting scopes and are securely attached to the rifle with solid, rigid mounts. Elevation and windage adjustments are quarter minute click, positive and exact. The objective lens is adjustable with a focusing scale that can be set for any range from 50 feet to 1000 yards. Long eye relief adapts these scopes to big bore as well as small bore match shooting.

The micrometer click adjustments are designed to give positive and exact sight changes with no play or lost motion. The parts are all enclosed and protected for maximum dependability and strength. Windage and elevation movements are entirely independent.

Adjustment knobs are equipped with graduated dials which can be set at zero after sighting in. Range focusing is accomplished by moving the objective lens at the front end of the scope but lens is not rotated and the point of impact will not shift when changing focus. ¼ inch click.

Nos.	S-K8	S-K10
Reticule	Crosshair	
Power	8	10
Eye Piece Diam. Ins.	1.355	1.355
Tube diam. Ins.	1	1
Length overall Ins.	15¼	15⅞
Eye distance Ins.	3-5	3-5
Field of view Ft.	14	12
Weight Ozs.	14	14
Fair Traded Each	**$59.50**	**$59.50**

One in a carton.

WEAVER

Cut shows Scope with detachable top mount.
Variable Power 2¾X to 5X Interal Adjustment
Less Mount

Coated lenses for maximum light transmission. Large objective lens for better definition and brighter illumination. Powered for all kinds of shooting. Power adjustment, windage and elevation, protected and locked with screw caps. No loose joints; sealed against moisture. Internal adjustments allow rigid and solid mounting with standard mounts. Sturdy and depend able to withstand heavy recoil and rough use. Tube: blued steel, 1 inch diameter; Length overall 11¼ inches; objective lens (entrance pupil) 1.225 inches; eye distance 3½ to 5 inches; field of view—2¾ power, 35 feet; 5 power, 25 feet. Focus: universal with adjustment to users vision. Adjustments: Protected internal, micrometer click, ¼ inch.

Nos.	Fair Traded Each	Type Reticule
S-KV	$57.50	Crosshair
S-KV	57.50	Post and Crosshair

One in a carton.

When ordering Specify type of Reticule

TELESCOPE SIGHTS
WEAVER

Cut shows Scope with detachable top mount.
4 Power—Internal Adjustment—Less Mount.

Wide field of view with brilliant illumination and needlesharp definition clear to the edge of the field. Fast hairsplitting accuracy. Can be used in rain or snow. Hard coating on the lenses increases light transmission 30%. No front sight or rear sight, just the crosshairs to be aligned to the target. The eye can be moved sideways as much as a half inch and aim will be accurate. Crosshairs are always clear and sharp. Tube diameter, 1 inch; length 11¼ ins.; objective lens aperture 1.225 inches; eye distance 3 to 5½ inches; field of view 31 feet. Weight scope only, 9½ ounces. Reticule, standard-medium crosshairs. Focus, adjustable to users vision. Adjustments: internal windage and elevation, graduated, ¼ inch click.

Nos.	Fair Traded Each	Type Reticule
S-K4	$45.00	Crosshair
S-K4	45.00	Post and Crosshair

One in a carton.

When ordering Specify type of Reticule

WEAVER

Cut Shows No. S-J4 With Top Mount Furnished Less Mounts

Are reliable and sturdy for use on all rifles. For general shooting, for big game and for much small game the No. S-J2.5 is usually preferred. It is fast and easily used on running game. It is the sight to use for squirrels and other small game where the range is not extreme and when much of the shooting is done off hand. The No. S-J4 has extra magnification and makes it the choice for long distance shooting of big game where most shots are over 150 yards. It is usually selected for small game and pests shooting when long shots are taken at chucks, crows, hawks, prairie dogs, etc. Tubes are of blued steel, .750 inch diameter. Focus, adjustable to users vision. The optical systems are fully corrected with double cemented compound achromatic lenses. Easy aiming makes plinking and general shooting twice as easy. Windage and elevation adjustments, of guaranteed accuracy, are internal and fully protected. The S-2.5 has friction-lock adjustments that are graduated and can be set with a coin or cartridge rim. The SJ-4 has ¼ inch click adjustment; the knobs are equipped with graduated discs which can be set at zero after the gun is sighted in and can be marked for longe range settings. Crosshair reticules are fast on big game and running shots are accurate at long range, at small game and targets and don't cover the mark when holding high to allow for long range bullet drop.

Nos.	S-J2.5	S-J4
Reticule	Crosshair	
Power	2½	4
Eye Piece Diam. Ins.	1.010	1.010
Tube Diam. at Front Lens Ins.	.750	.890
Eye Distance Ins.	3 to 5½	3 to 5
Field of View Ft.	37	26
Length Overall Ins.	10½	12
Weight Scope Only Os.	6	6¼
Fair Traded Each	$22.50	$27.50

One in a carton.

STREAMLINED BICYCLES

MURRAY-OHIO MERCURY SUPER DELUXE STRATO-LINE MODEL

No. S-G26 Boys' Model

No. S-G27 Girls' Model

Frame: 19-inch hydrogen brazed. All joints reinforced for double strength. Fork: Drop forged with twin spring assembly. Fenders: Murray Ohio deep section Crescent design. Crank: One piece drop forged with 7 inch throw. Rims: All steel hook-type, chrome plated. Coaster Brake: Musselman, self-energizing, equipped with exclusive hard chrome brake shoe. Wheels: 26 inches. Pedals: Boys' —Torrington No. 8; Girl's —Torrington No. 9. Tires: U. S. Royal or Goodyear, white sidewall, 26x2.125 inch balloon with inner tube. Saddle: Troxel, tan vinyl plastic, waterproof top with scuff plates. Compound chrome plated springs. Handlebar: Boys'—Torrington S.B. 26x8; Girls'—Torrington U-bar. Grips: Boy's—Red plastic; Girl's—Green plastic; Stem: Forged, chrome plated. Truss Rods: Chrome plated. Chain Guard: Deluxe jet-line design. Luggage Carrier: Deluxe dual-fin type design. Parking stand: Side kick-up type, cadmium plated. Tank: Motorcycle type with attractive paneling and striping. Reflector: Stimsonite mounted in attractive chrome plated housing on rear fender. Headlight: Delta, two-tone Rocket Ray with chrome shield, on front fender, Horn: Delta unit in tank. Finish: Boy's —Black baked enamel with Vermilion and grey panel and striping; Girl's—Ivy green baked enamel with sage green and ivory panels and striping. Shipping weight each 70 lbs.

Nos.	Each	Model
S-G26	$86.65	Boys'
S-G27	86.65	Girl's

One in a shipping carton.

STREAMLINED BICYCLES

SHELBY "50" SERIES

The Shelby Spring Fork is a strong, resilient steel spring which flexes back and forth absorbing road shock and jar, keeping the bike under control on the roughest roads, giving a safer, smoother and more enjoyable ride. Airflo Frame: Built to take the roughest punishment. Every joint has the "fish mouth" reinforcement, dip-brazed in molten brass for perfect fusion. All works have drop-forged crowns with tubular fork sides combining strength with resiliency. Tank: Chrome finish with louvered front. Decal features transparent letters. Built-in horn with switch at top Chain Guard: Chrome, decorated with embossed streamlines. Saddle: Tan vinyl with dual chrome springs, chrome rail protects the saddle Braces: Chrome finish. Two in front, one at rear. Luggage Carrier: Chrome finish. Headlight: Chrome combination headlight and side light. Tail Light: Chrome combination electric tail light, automatic stoplight and reflector. Wheels: 26 inch. Tires: 26x2.125 inch balloon with white side walls. Finish: Boy's—Midnight Black with Red trim. Girl's—Royal Blue with Sky Blue trim. Shipping weight each 65 lbs.

Nos.	Each	Model
S-52A	$104.00	Boy's
S-53A	104.00	Girl's

One in a shipping carton.

SHELBY "40" SERIES

Airflo Frame. Built to take the roughest punishment. Every joint has the "fish-mouth" reinforcement, dip-brazed. Strat-O-Line chrome truss rods. Deep drop flared guards with Airflo braces. Chain Guard: Chrome plated, decorated with embossed streamline. Saddle: Tan vinyl with dual chrome springs, chrome rail protects the saddle. Luggage Carrier: Chrome finish. Headlight: Chrome, combination headlight and side light. Tail Light: Delta electric streamlined. A twist of the plastic reflector lens turns it on. Wheels: 26 inches. Tires: 26x2.125 inch balloon with white side walls. Finish: Boy's—Meadow Green with Sea Green trim. Girl's—Royal Blue with Sky Blue trim. Shipping weight each 62 lbs.

Nos.	Each	Model
S-42A	$89.50	Boy's
S-43A	89.50	Girl's

One in a shipping carton.

STREAMLINED BICYCLES

SHELBY "20" SERIES

Frame. Streamlined, double welded and dip-brazed joints. Every joint has the "fish-mouth" reinforcement for greater strength and increased safety. Bridge type chrome truss rods. Chain Guard: Enameled. Saddle: Black with bell type springs. Headlight: Torpedo design. Reflector: Grotelite Wheels: 26 inches. Tires: 26x2.125 balloon. Finish: Deep Green with white trim. Shipping weight each 65 lbs.

Nos.	Each	Model
S-X20A	$71.75	Boy's
S-X21A	71.75	Girl's

One in a shipping carton.

JUVENILE MODELS

Frame: Airflo double bar type welded and brazed construction with internal reinforcements at all joints, with 15 inch seat mast. Wheels: 24 inches. Tires: 24x2.125 balloon. Equipment: Torpedo design headlight; Grotelite ruby on rear fender; Chain guard; juvenile black bucket type saddle with double coil springs. Bendix or New Departure coaster brake; Enameled rims and chain guard. Finish: Boy's—Red with White trim. Girl's—Light Blue with White trim. Shipping weight each 50 lbs.

Nos.	Each	Model
S-X10	$70.50	Boy's
S-X11	70.50	Girl's

LERNERCYCLE RIGS

SHELBY

Every youngster can learn to keep his balance safely and quickly. Kit contains two sturdy 7 inch wheels, rubber step plates, and adaptor brackets, adjustable for all juvenile bikes.

S-185 ..... Each $5.50

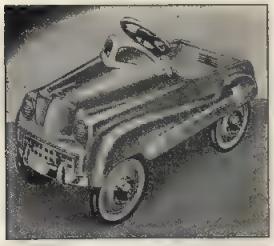
One in a shipping carton.

JUVENILE AUTOS AND TRUCKS

MURRAY-OHIO

All Juvenile Autos and Trucks are equipped with the famous Chassis Construction known as "Jet Flow Drive". Full Ball Bearing Drive Mechanism. No Dead Center. The crank rear axle turns in ball bearings which are mounted on the heavy steel cross beams. Ball bearing housings connect the pull straps to rear axle. The pedals and front pull strap connections are suspended on easy pivoting pedal hangers from front axle beam. Two pedal locations permit adjustments of various ages. No Dead Center feature provides easy constant drive action. Front axle and steering mechanism is sturdy and well-engineered for less friction, easier steering and shorter turning. The heavy steel stamped axle beam has solid steel rod steering knuckles. All bodies are deep drawn, heavy gauge steel stampings ,with fenders, hoods and body sides made from one piece of steel. The radiator and rear deck are drawn steel stampings welded to the body. All wheels are shrouded with modern deep-drawn fenders. Ball bearing, disc wheels. Each wheel rides on double ball bearing assemblies connected by a heavy gauge steel spacer. Hardened steel balls, ball races and cones give long life and easy rolling. Pre-adjusted ball bearings allow tightening of self-locking nuts on threaded axles, without further bearing adjustment. New design heavy gauge wheel discs encase the ball assembly

CHAMPION MODEL AUTOS



Wheels: 8 inch diameter, double disc type. Radiator Ornament: Bright plated. Windshield: White enameled. Seat Pad: Red, fabric type. Tires: ¾ inch solid rubber. Pedals: Rubber block. Finish: Body in light blue enamel with white trim and silver enameled grille. Dimensions: Length, 36 inches; width, 17 inches. Shipping weight each, 29 lbs.

S-J610 ..... Each $16.00

One in a shipping carton.

FIRE CHIEF AUTOS

Wheels: 8 inch diameter, double disc type. Bell: Bright plated. Seat Pad: Red, fabric type. Tires: ¾ inch solid rubber. Pedals: Rubber block. Finish: Body in white baked enamel with red trim and silver enameled grille. Dimensions: Length, 36 inches; width, 17 inches. Shipping weight each, 29 lbs.

S-J611 ..... Each $16.95

One in a shipping carton.

FIRE TRUCKS

Wheels: 8 inch diameter, double disc, ball bearing type. Bumper: Silver enameled. Fire Chief Bell: Bright plated. Windshield: White enameled. Ladders: Two wooden varnished ladders. Hand Rails: Two tubular rails, white enameled. Seat Pad: Fabric type. Tires: ¾ inch solid rubber. Pedals: Rubber block. Finish: Body in Vermillion baked enamel with white trim. Dimensions: Length, 47 inches; width, 17 inches. Shipping weight each, 40 lbs.

S-J740 ..... Each $25.50

One in a shipping carton.

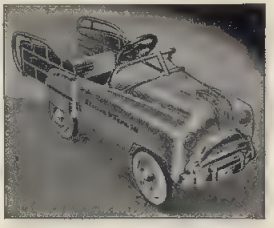
DUMP TRUCKS

Wheels: 8 inch diameter, double disc, ball bearing type. Dump Box: Operated from seat position. Radiator Ornament: Chrome plated. Windshield: White. Bumper: Silver enameled. Seat Pad: Fabric type. Tires: ¾ inch solid rubber. Pedals: Rubber block. Finish: Body and box in yellow baked enamel with black steering wheel and windshield, black and white wheels Dimensions: Length, 47 inches; width, 17 inches. Shipping weight each, 41 lbs.

S-J742 ..... Each $24.50

One in a shipping carton.

STATION WAGONS



Wheels: 8 inch diameter, double disc, ball bearing type Bumper: Silver enameled. Radiator Ornament: Bright plated. Windshield: White enameled. Hand Rails: Tubular steel, white enameled. Seat Pad: Fabric type. Tires: ¾ inch solid rubber. Pedals: Rubber block. Finish: Body and box in gold baked enamel, maroon body panels. Dimensions: Length, 47 inches; width, 17 inches. Shipping weight, 40 lbs.

S-J741 ..... Each $24.50

One in a shipping carton.

CROSS CUT SAWS

SIMONDS CRESCENT GROUND—WITHOUT HANDLES

High grade tool steel, polished and etched. Tempered accurately to practical, serviceable hardness.

Razor sharp teeth filed and set. Take edge easily—hold it long.

Crescent grinding enables cutting with less labor—assures absolute true taper from tooth edge to back—uniform thickness on tooth edge

Tuttle Tooth—Narrow—Sway-Back Pattern

Two coarse cutting teeth to each raker.

Length Nos. Feet	Each	Center Width, Ins.	End Width, Ins.	Weight Each Lbs.	No. Gauges Taper
315—6	$12.25	4¼	3¼	4½	3
315—6½	13.65	4½	3¼	4⅝	3

Lance Tooth—Narrow—Sway-Back Pattern

Four cutting teeth to each raker.

Length Nos. Feet	Each	Center Width, Ins.	End Width, Ins.	Weight Each Lbs.	No. Gauges Taper
325—5½	$13.65	4½	3¼	4⅝	3
325—6	16.10	4½	3¼	5⅛	3

Tuttle Tooth—Wide Pattern

Two cutting teeth to each raker.

Length Nos. Feet	Each	Center Width, Ins.	End Width, Ins.	Weight Each Lbs.	No. Gauges Taper
12—5	$12.25	6½	3¼	4⅝	5
12—5½	13.65	6⅝	3½	5⅛	6
12—6	16.10	7	3¾	6⅛	6

Tuttle Tooth—Medium Wide—Sway-Back Pattern

Two cutting teeth to each raker.

Length Nos. Feet	Each	Center Width, Ins.	End Width, Ins.	Weight Each Lbs.	No. Gauges Taper
113—5	$12.25	5¼	3⅜	4⅝	5
113—5½	13.65	5½	3⅜	4⅝	5
113—6	16.10	5⅝	3⅜	5⅛	6

Lance Tooth—Wide Pattern

Four cutting teeth to each raker.

Length Nos. Feet	Each	Center Width, Ins.	End Width, Ins.	Weight Each Lbs.	No. Gauges Taper
22—5½	$13.65	6⅝	3½	5⅛	6
22—6	16.10	7	3¾	6⅛	6

SIMONDS FLAT GROUND—WITHOUT HANDLES

Lance Tooth—Hollow Back—Narrow Pattern

Center width 3⅝ inches. End width 3⅜ inches. Length 5½ feet. Weight each 4¾ lbs.

Each $7.00

All the above, loose not packed.

ATKINS SEGMENT GROUND—WITHOUT HANDLES

High grade tool steel—polished and etched. Ground gradually thinner from teeth to back. Sharp teeth filed and set. Segment ground—even gauge throughout the entire length assures smooth cutting, free running

Original Tuttle Tooth

Length Nos. Feet	Each	Center Width, Ins.	End Width, Ins.	Weight Each Lbs.	No. Gauges Taper
332½—5	$11.50	6⅜	3½	4¼	14x20
332½—5½	13.45	6⅜	3½	5⅜	14x20

KEYSTONE

A cross cut saw at a popular price No operation has been overlooked to make Keystone Cross Cut Saws an outstanding value. The saws are ground by the Disston process for smooth running and fast cutting. Have the same teeth and gullets as Disston's cross cut saws. Sharpened by improved filing method

Champion Tooth—Medium Wide—Straight Back Pattern

Two cutting teeth to each raker.

Length Nos. Feet	Each	Center Width, Ins.	End Width, Ins.	Weight Each Lbs.	No. Gauges Taper
K528—5	$7.35	5⅜	3¼	5½	5
K528—5½	7.90	5⅜	3¼	5½	5

Lance Tooth—Narrow Hollow-Back Pattern

Four cutting teeth to each raker

Length Nos. Feet	Each	Center Width, Ins.	End Width, Ins.	Weight Each Lbs.	No. Gauges Taper
K814—5	$4.45	3½	3½	3½	2
K814—5½	4.95	3½	3½	3½	2

Champion Tooth—Narrow—Hollow-Back Pattern

Two cutting teeth to each raker.

Length Nos. Feet	Each	Center Width, Ins.	End Width, Ins.	Weight Each Lbs.	No. Gauges Taper
K854—5	$3.95	3¼	3¼	3½	2
K854—5½	4.35	3¼	3¼	4	2
K854—6	4.75	3¼	3¼	4½	2

All the above, loose not packed

ONE MAN CROSS CUT SAWS

PENNSYLVANIA—COLUMBIA

Champion Tooth

A fast cutting, two cutter—one raker tooth saw, filed and set. Undoubtedly one of the most popular saws of its kind. Well balanced. Tempered spring steel. Varnished handle with large hand grip, fastened with nickel-plated screws and medallion.

Length Nos. Feet	Each	Butt Width, Ins.	Point Width Ins.	Weight Each Lbs.	No. Gauges Taper
400—3	$4.40	5⅜	2⅛	3½	16
400—3½	5.15	5⅜	2⅛	4¼	15
400—4	5.85	5⅜	2⅛	4⅝	15

One in an individual heavy corrugated envelope and wire stitched.

HELIN FLAT FISH

Surface Model

Deadly bait for bass, pike and musky. No weight used on line No leader necessary. Cast and retrieved or trailed entirely on the surface Can be used underwater with sufficient sinker on line at least a foot in front of the plug, but the underwater models are preferred for this. Length 3⅜ ins. Weight ¼ oz. With three No. 8 Treble Hooks.

Nos.	Each	Colors
S-S3-OR	$1.35	Orange
S-S3-FR	1.35	Green Frog Imitation
S-S3-BL	1.35	Black, Orange Spots
S-S3-WH	1.35	White
S-S3-WB	1.35	White, Red Head, Black Top
S-S3-WR	1.35	White Belly, Red Top
S-S3-YE	1.35	Yellow
S-S3-YB	1.35	Yellow, Red Head, Black Top
S-S3-LOB	1.35	Light Orange, Red Head, Black Top.
S-S3-SAS	1.35	Small Aluminum Scale
S-S3-SC	1.35	Scale Finish Natural
S-S3-OB	1.35	Orange, Red Head, Black Stripe
S-S3-LO	1.35	Light Orange
S-S3-SIF	1.35	Silver Metallic Foil

One in a box, one dozen in a carton.

HELIN FLAT FISH

Underwater Model

For walleyes, trout and pike. Cast or trolled, preferably with a weight pinched on the line or leader 12 inches ahead of the lure. Length 3¼ ins. Weight 1/3 oz. With three No. 8 Treble Hooks

Nos.	Each	Colors
S-U20-OR	$1.35	Orange
S-U20-LO	1.35	Light Orange
S-U20-YE	1.35	Yellow
S-U20-FR	1.35	Green Frog Imitation
S-U20-BL	1.35	Black, Orange Spots
S-U20-WH	1.35	White
S-U20-WB	1.35	White, Red Head, Black Top
S-U20-YB	1.35	Yellow, Red Head, Black Top
S-U20-SAS	1.35	Small Aluminum Scale
S-U20-SC	1.35	Scale Finish Natural
S-U20-OB	1.35	Orange, Red Head, Black Stripe
S-U20-SIF	1.35	Silver Metallic Foil

One in a box, one dozen in a carton.

Note: Furnished in 3 gang hooks. Unlawful to use 4-gang hooks in Pennsylvania, Connecticut, Ohio, Arkansas, Nebraska, Oregon and California. All others 4-gang.

Can be furnished with 4-gang hooks for factory shipment only.

HELIN FLAT FISH

Musky Model

Casting and trolling size for muskellunge and other large game fish. No leader necessary. Equipped with three treble hooks—size 5. Length of bait 4¾ ins.

Nos.	Each	Colors
S-M2-OE	$1.45	Orange
S-M2-YE	1.45	Yellow
S-M2-FR	1.45	Green Frog Imitation
S-M2-YB	1.45	Yellow, Red Head, Black Top
S-M2-WB	1.45	White, Red Head, Black Top
S-M2-SIF	1.45	Silver Metallic Foil

One in a box, one dozen in a carton.

Troller Model

An ideal trolling lure for bass, walleyes or pike. Equipped with three No. 7 treble hooks. Length of bait 3½ ins.

Nos.	Each	Colors
S-T4-OR	$1.35	Orange
S-T4-YE	1.35	Yellow
S-T4-FR	1.35	Green Frog Imitation
S-T4-YB	1.35	Yellow, Red Head, Black Top
S-T4-WB	1.35	White, Red Head, Black Top
S-T4-SC	1.35	Natural Scale Finish
S-T4-SIF	1.35	Silver Metallic Foil

One in a box, one dozen in a carton.

HELIN FLAT FISH

Expert Model

A casting and trolling size lure. It possesses that enticing slow reel action. Is especially good for bass either cast or trolled in heavily fished waters. Length 2⅝ ins. Furnished with three No. 9 Treble Hooks.

Nos.	Each	Colors
S-X5-OR	$1.35	Orange
S-X5-LO	1.35	Light Orange
S-X5-YE	1.35	Yellow
S-X5-FR	1.35	Green Frog Imitation
S-X5-BL	1.35	Black, Orange Spots
S-X5-WH	1.35	White
S-X5-WB	1.35	White, Red Head, Black Top
S-X5-SC	1.35	Scale Finish
S-X5-YB	1.35	Yellow, Red Head. Black Top
S-X5-SIF	1.35	Silver Metallic Foil

One in a box, one dozen in a carton.

Expert Junior Model

Same as the No. S-X5 Expert model in a smaller size. Length 2¼ inches. Furnished with three No. 9 treble hooks.

Nos.	Each	Colors
S-X4-OR	$1.35	Orange
S-X4-YE	1.35	Yellow
S-X4-FR	1.35	Green Frog Imitation
S-X4-BL	1.35	Black, Orange Spots
S-X4-WH	1.35	White
S-X4-WB	1.35	White, Red Head, Black Top
S-X4-OW	1.35	Orange, White Belly, Black Top
S-X4-SC	1.35	Scale Finish, Natural
S-X4-YB	1.35	Yellow, Red Head, Black Top
S-X4-SIF	1.35	Silver Metallic Foil

One in a box, one dozen in a carton.

HELIN FLAT FISH

Fly Rod Model

Can be used unweighted and, when bait cast, is used with a small weight on the line or leader. Length 2 ins. Weight 1/16 oz. Furnished with two No. 12 Treble Hooks

Nos.	Each	Colors
S-F6-OR	$1.10	Orange
S-F6-LO	1.10	Light Orange
S-F6-YE	1.10	Yellow
S-F6-FR	1.10	Green Frog Imitation
S-F6-BL	1.10	Black, Orange Spots
S-F6-WH	1.10	White
S-F6-SI	1.10	Silver Bronze (Aluminum)
S-F6-SC	1.10	Scale Finish, Natural
S-F6-SIF	1.10	Silver Metallic Foil

One in a box, one dozen in a carton.

Fly Rod Model

Same as S-F6 model except larger. Especially suitable for Trout, brown and rainbow or steelheads or other game fish.
Length 2¾ ins. Weight 1/12 oz. Furnished with two No. 10 Treble Hooks.

Nos.	Each	Colors
S-F7-OR	$1.10	Orange
S-F7-LO	1.10	Light Orange
S-F7-BL	1.10	Black, Orange Spots
S-F7-FR	1.10	Green Frog Imitation
S-F7-SI	1.10	Silver Bronze (Aluminum)
S-F7-SC	1.10	Scale Finish, Natural
S-F7-YE	1.10	Yellow
S-F7-SIF	1.10	Silver Metallic Foil

One in a box, one dozen in a carton.

HELIN FLAT FISH

Baby Fly Rod

Is a small model with a single, small Treble Hook hung off the body by a split ring. Can be fly cast on a fly rod perfectly in spite of its small size. For Trout, Bass and Pan fish Length 1¼ ins. Furnished with one No. 9 Treble Hook.

Nos.	Each	Colors
S-F4-OR	$1.10	Orange
S-F4-LO	1.10	Light Orange
S-F4-YE	1.10	Yellow
S-F4-FR	1.10	Green Frog Imitation
S-F4-BL	1.10	Black, Orange Spots
S-F4-WH	1.10	White
S-F4-WE	1.10	White Belly, Red Top
S-F4-SI	1.10	Silver Bronze (Aluminium)
S-F4-SC	1.10	Scale Finish, Natural
S-F4-SIF	1.10	Silver Metallic Foil

One in a box, one dozen in a carton.

HELIN FLAT FISH

Midget Fly Rod

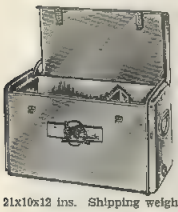
Is a small model with a single, small Treble Hook hung off the body by a split ring. Can be fly cast on a fly rod perfectly in spite of its small size. For Trout, Bass and Pan fish. Length 1¼ ins. Furnished with one No. 10 Treble Hook.

Nos.	Each	Colors
S-F3-OR	$1.10	Orange
S-F3-YE	1.10	Yellow
S-F3-FR	1.10	Green Frog Imitation
S-F3-SIF	1.10	Silver Metallic Foil

One in a box, one dozen in a carton.

PORTABLE ICE BOXES

POLORON ALUMINUM THERMASTER

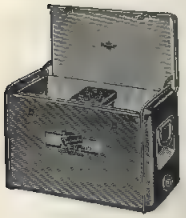


Ideal for camping and picnics. Rustproof solid aluminum inside and outside. Solid brass drain feature. Fibreglass insulation. All seams inside and outside absolutely watertight. Patented trunk latches. Pinch proof handle. Polished hammered aluminum finish, (no paint) Outside dimensions; 21x10x12 ins. Shipping weight each 13 lbs

S-342 ..... Each $21.00

One in a shipping carton.

POLORON DELUXE THERMASTER



An ideal ice box to take camping or on picnics. Fully insulated on top, bottom and all four sides. Absolutely watertight, the galvanized interior is rustproof and all seams are tight inside and outside. Equipped with convenient drain plug New patented trunk latches and recessed pinch proof handles. Removable ice container. Hammered gray metal finish

Nos.	Each	Size Ins.	Weight Lbs.
S-340	$15.25	21x10x12	18
S-341	19.95	27x10x12	22

One in a shipping carton.

SYPHON BOTTLES

SODA KING

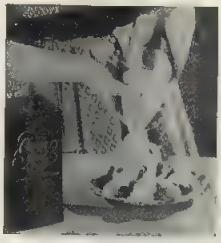
Makes delicious sparkling water from plain drinking water. Keeps soda fresh and sweet indefinitely. Mixes Highballs, Tom Collins, Ice Cream Sodas, Colas, Ginger Ale, Root Beer and a wide variety of drinks. Specially recommended for carbonating wines because of the glass lining. The wine does not come in contact with any metal that might spoil its flavor. Makes sauterne fizz like champagne, converts still burgandy into sparkling burgandy. Equipped with safety relief, which insures against accidents which may occur when a syphon is incorrectly used. Polished aluminum shell. Glass lining. Black plastic top. Capacity one quart. Furnished with three chargers.

S-1A ..... Each $16.00

One in a carton; six in a shipping carton.

SYPHON WHIPPERS

CREAM KING



Whips cream just as you need it. Cuts waste and work in the kitchen and makes it easy to serve decorative whipped cream toppings.

Pressure whips real cream or top milk instantly and keeps whipped cream fresh and on tap for a week. One-half pint makes a quart of whipped cream. Handy, too, with hot chocolate or salads. Polished drawn aluminum bottle with sturdy white plastic head.

Furnished with two chargers.

S-2 ..... Each $8.85

One in a carton. Twelve in a shipping carton.

SYPHON BOTTLE SUPER CHARGERS

SODA KING

Each Super-Charger makes a full quart of delicious sparkling water. Fully charged and will fit all syphons Will keep indefinitely.

S-10 ..... Per Carton of 10—$0.95

Ten in a carton; six dozen cartons in a shipping carton.

SYPHON WHIPPER CHARGERS

WHIPPETS JR.

Each Whippets Junior Charger whips a half-pint of light or heavy cream in a Cream King Whipper. Just the same as the famous larger size used at soda fountains everywhere.

S-5 ..... Per Carton of 5—$0.55

Five in a carton; six dozen cartons in a shipping carton.

TOMAHAWK AXES
TRUE TEMPER

A powerful, perfectly balanced Belt Axe. Its streamlined design creates a swinging weight—it cuts with the power of a heavy tool.
Forged from highest grade tool steel. Head ground, polished smooth, coated with rust resisting black. Reinforced convex edge. Fitted with 14¼ inch select hickory handle, fire hardened.
Cutting edge 3¼ inches. Weight per dozen 18 lbs.

TH ..... **Each $3.40**
One-sixth dozen in a carton; two dozen in a shipping carton.

LEATHER SHEATHS

For Use With No. TH Tomahawk Axes.

Quality saddle leather sheath securely sewed and riveted. Large flap snaps quickly.

THS ..... **Each $0.90**
Loose—not packed.

BELT AXES
TRUE TEMPER—FLINT EDGE

Drop forged from finest quality tool steel and heat treated by the most modern control methods of exacting specifications. Head black finish, with polished cutting edges. Fitted with 14 inch, Fire Hardened hickory handles.
Cutting edge 4 inches. Weight less handle 1¼ lbs. Weight per dozen 17 lbs.

O ..... **Each $3.20**
One-half dozen in a carton.

LEATHER SHEATHS

For Use With No. O Belt Axes.

Quality saddle leather sheath securely sewed and riveted. Large flap snaps quickly.

OS ..... **Each $0.65**
Loose—not packed.

CAMP AND SPORTING AXES
ESTWING

One piece head and handle of fine tool steel. Electrically forged and hardened into best general service temper.
Handy claw edge, face tempered for long life. Perfectly, permanently balanced. Grip is made of sole leather washers pressed and riveted on shank. Polished and lacquered to a lustrous nonslip finish. Proofed against shock, heat, cold and electricity. Unbreakable handle. Complete with fine hide leather belt sheath. Cutting width 3½ inches, length overall 13½ inches. Weight per dozen 20 lbs.

Nos.	Mfrs. List Each	Finish
24A	$4.50	Polished
B24A	4.10	Velvet Black

One-third dozen in a carton.

CAMP AND SPORTING AXES
PLUMB BELT

Handy for use around camp or home for chopping kindling, cutting stakes, etc. Also used by Boy Scouts. Head of finest steel—hardened and carefully tempered to hold a keen edge. Advertised Finish—smooth black head. Nail slot in head. Bright red handle with turned foot. Cutting edge 4 inches. Weight less handle 1½ lbs. Weight per dozen 21 lbs.

680 ..... **Each $3.15**
One-half dozen in a carton.

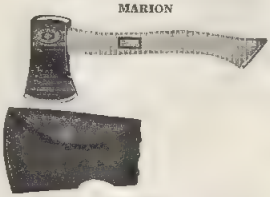
LEATHER SHEATHS

For Use With No. 680 Axes

Quality saddle leather sheath securely sewed and riveted. Large flap snaps quickly

250 ..... **Each $0.70**
Loose—not packed.

CAMP AND SPORTING AXES
MARION

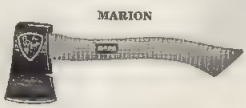


Michigan Pattern With Cowhide Sheath

For scouts, campers, general utility. Tough head made of Crafcoite alloy steel, carefully heat treated. Smooth black finish with polished edge and face. Cream handle. Cutting edge 3¼ inches, length overall 14 inches. Weight less handle 1¼ pounds. Weight per dozen 17 lbs.

77-1 ..... **Each $2.20**
One-half dozen in a carton.

MARION



Dayton Pattern

Special cast alloy steel head. Black crackle finish with polished cutting edge. Cream color hickory handle. Cutting edge 3¼ inches, length overall 14 inches. Weight less handle 1¼ pounds. Weight per dozen 17 lbs.

99XC ..... **Each $0.95**
One-half dozen in a carton.

BROAD HATCHETS
TRUE TEMPER

Forged from the finest hatchet steel, full heat treated. Head ground, polished smooth, and coated with rust resisting black. Fitted with best quality, 14½ inch fire hardened hickory handle. Cutting edge 4½ ins.. Weight per dozen 38 lbs.

TB2 ..... **Each $3.50**
One-third dozen in a carton.

BROAD HATCHETS
TRUE TEMPER—BRIAR EDGE

Forged from the finest hatchet steel, full heat treated Head ground, natural forge finish, coated with rust resisting lacquer. Fitted with 14½ inch sound hickory, white lacquered handle. Cutting edge 4½ ins. Weight per dozen 38 lbs.

B2 ..... **Each $2.90**
One-half dozen in a carton.

RIG BUILDERS' HATCHETS
PLUMB

An improved Rig Builders' pattern hatchet, having a rolled bevel cutting edge. Smooth black finish head, checkered to assure safety and control. Extra long, slim 18 inch red hickory handle and take-up wedge. Size 2. Cutting edge 3½ ins. Weight per dozen 26½ lbs.

RB-2 ..... **Each $4.50**
One-third dozen in a carton.

HALF HATCHETS
PLUMB "AUTOGRAF"

Bell Poll—Special Thin Blade

The head is made of tough special analysis heat treated steel, with cutting edge and striking face individually hardened and tempered. Polished head with natural finished flat-sided 13½ inch handle and take-up wedge. Size 2. Cutting edge 3⅜ ins. Weight per dozen 21 lbs.

AH2 ..... **Each $4.70**
One-third dozen in a carton.

PLUMB

Made of special analysis steel, heat treated and tempered. Handles of second growth hickory pneumatically driven to assure balance. Smooth black finish head, red handle and take-up wedge.

Nos.	Each	Size	Width Cut, Ins.	Lgth. Hdle., Ins.	Weight Per Doz. Lbs.
2961	$3.70	1	3¼	13	18
2962	3.70	2	3⅝	13½	22

One-third dozen in a carton.

ENGINEERS' HAMMERS

TRUE TEMPER

Double Face

Forged from highest quality hammer steel Head ground, polished smooth, coated with rust resisting black. Fitted with selected hickory, fire hardened handles securely wedged.

Nos.	Each	Wt., Head Lbs.
2D	$3.90	2½
3D	4.15	3

One-third dozen in a carton

PLUMB

Double Faced Octagon Pattern

Die forged from special analysis steel. Expertly balanced for maximum striking power. Black finish. Selected seasoned, second growth mahoganized hickory handles—tested for strength and hand comfort. Securely fastened with take-up wedge. Size 2. Weight head 2½ pounds. Length handle 14 inches

272 ..... Each $3.90

One-half dozen in a carton.

TRUE TEMPER

Cross Pein Pattern

Heavy machinists' hammer. Forged from finest hammer steel. Head ground, polished smooth, coated with rust resisting black. Fitted with selected hickory, fire hardened handles, securely wedged.

Nos.	Each	Size	Wt., Head Lbs.
1B	$3.00	1	2
2B	3.90	2	2½
3B	4.15	3	3

One-third dozen in a carton

PLUMB

Cross Pein Pattern

Drop forged from quality hammer steel—heat treated—tempered hard yet tough to prevent chipping. Cross pein is pointed for working and shaping materials. Smooth black finish with polished pein and face. Second growth, mahoganized red handles. Securely fastened with take-up wedge. Length handle 14 inches

Nos.	Each	Size	Wt., Head Lbs.
281	$3.60	1	2
283	3.90	2	2½
285	4.15	3	3

One-half dozen in a carton.

MACHINISTS' BALL PEIN HAMMERS

PLUMB

Die forged special analysis steel processed to give maximum degree of hardness without chipping—eye toughened against breakage—pein tempered right for spreading rivets. Scientific balance from off center mounting of head assures accurate blow. Velvet black finish rust resisting—highly polished face and pein. Strong, straight grained, live hickory handles—mahoganized especially to seal wood pores. Securely attached with take up wedge or expanding screw.

Nos.	Each	Size	Weight Head	Handle Lgth., Ins.
367	$1.95	7/0	2 Oz.	10
369	1.95	5/0	4 Oz.	10½
371	2.15	3/0	8 Oz.	12½
372	2.25	2/0	12 Oz.	12½
373	2.40	0	1 Lb.	14
374	2.50	1	1¼ Lbs.	14
375	2.75	2	1½ Lbs.	15½
377	2.95	4	2 Lbs.	15½
379	3.15	6	2½ Lbs.	15½

One-half dozen in a carton.

TRUE TEMPER—FLINT EDGE

Professional Design

Forged from the finest grade hammer steel. Perfect balance. Expertly tempered, precision ground. Heavy chamfered face prevents chipping. Head ground smooth, coated with rust resisting black. Face and pein polished. Fitted with select hickory, fire hardened handles which are tough with spring neck to minimize wrist shock. Securely wedged into head.

Nos.	Each	Size	Weight Head
1504	$1.60	5/0	4 Oz.
1308	1.75	3/0	8 Oz.
12012	1.85	2/0	12 Oz.
1616	1.95	0	1 Lb.
1120	2.10	1	1¼ Lb.
1224	2.25	2	1½ Lb.
1432	2.50	4	2 Lbs.
1640	2.75	6	2½ Lb.

No. 1504 to No. 12012 inclusive one-half dozen; balance one-third dozen in a carton.

SOFT FACED HAMMERS

STANLEY

REGULAR FACE

Use for Non-Shatering, Non-Marring Blows

The ideal hammers for forming soft metals, for calking boats, for assembly work, for automotive repairs and for home workshops. Renewable tips are made of a tough and resilient cellulose composition material that won't mar finely finished surfaces. Hickory handles are "Evertite" processed to prevent shrinking and are securely locked in steel center body. Steel head is red, tips are amber color and handle is lacquered mahogany.

Nos.	Each	Lgth. Handle, Head In.	Wgt. Head Oz.	Extra Tip Nos.	Dia. Head Ins.	Each
592	$1.20	7⅞	1½	592A	⅝	$0.30
593	1.55	9	4	593A	⅞	.35
594	2.10	11¾	8	594A	1¼	.45
595	2.45	11¾	16	595A	1⅝	.50
5950	7.15	12½	32	5950A	1⅝	.90

Tips for numbers 595 and 5950 are interchangeable.

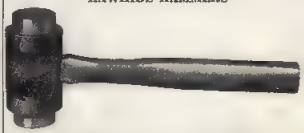
Loose—not packed.

HAMMERS AND MALLETS

RAWHIDE

For non-shattering blows in such operations as assembling, dismantling, shaping, forcing, loosening and adjusting will not break, injure or mar finished surfaces, tools or products.
Mechanics will handle these well balanced tools with confidence and safety, rapidly accomplishing work which would be slow, difficult or dangerous with other tools. Easy grip hickory handles, non-slipping striking surfaces.
Rawhide used specially prepared Java water buffalo stock carefully processed to preserve resilience and strength. Will not chip or sheer.

RAWHIDE HAMMERS

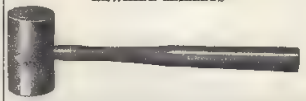


Solid hard rolled hide attached securely to handle by safety wedge. Faces replaceable so you own a permanent tool.

Nos.	Each	Extra Faces, Per Pair	Diam. Face, In.	Wgt. Head, Lbs.
M-21	$2.15	$0.80	1¼	1
M-22	2.60	.95	1½	1½
M-23	3.15	1.35	1⅝	2½
M-24	4.40	1.65	2	4
M-25	8.75	3.35	2¾	6½

Loose—not packed.

RAWHIDE MALLETS



Solid, hard, rolled hide securely glued and riveted. Steel forged pin through head and handle insures permanent fastenings.

Nos.	Mfrs. List Each	Diam. Face, In.	Lgth. Hd., In.	Wt. Hd., Oz.
M-30	$1.00	1	2	2
M-31	1.15	1¾	2¼	4
M-32	1.50	1½	3	6
M-33	2.00	1¾	3¾	8
M-34	2.35	2	3½	11
M-35	4.70	2¾	4½	22
M-36	4.95	2¾	4¾	24

Loose—not packed.

RUBBER MALLETS

Hammers effectively without marring. Serves a wide variety of uses in the workshop, garages, service stations, repair shop, industrial plants, etc. Head is made of special oil and abrasion resistant rubber compound which will not mar or chip. Handle is made of straight grained hickory and is securely locked into the head. Slightly flattened sides to insure perfect grip.

Nos.	Each	Dia. of Face Ins.	Lgth. of Head Ins.	Weight Each Less Handle
M-5	$1.25	1¼	3⅜	13 Oz.
M-6	2.50	2¼	4¾	1 Lb. 7 Oz.
M-7	2.75	2¼	5⅛	2 Lb. 5 Oz.

Loose not packed.

Hopalong Cassidy

1 OFFICIAL DEPUTY HAT
• A perfect gift—included with each hat is a picture of Hopalong Cassidy!
Now he can be one of Hoppy's deputies! This 100% wool felt Western hat is styled just like his hero's—makes a wonderful gift. Rolling three inch brim . . . genuine leather Bar-20 slide adjusts rayon braid chin strap. Official insignia printed on front. Color Black.
Sizes: Small (6¼-6¾), Medium (6½-6¾), Large (6¾-6⅞), Extra Large (7-7⅛).
Postpaid.
32 J 7830. State size. 1.95

2 "TOP SECRET" WALLET . . . photo designs on simulated leather—zip closing. Picture section with Hoppy pass, coin purse, lucky coin, bill section. Boxed. Color, Black.
32 J 7831. Postpaid. 1.19
Price includes Federal Tax.

3 COWBOY TIE AND SLIDE . . . complete his outfit with a colorful cotton neckerchief. Real Western design has photos of Hoppy and Topper on both ends. Metal slide holds tie in place. Black or Red. State color.
32 J 7816. Postpaid. . . . . 69¢

4 FLASHLIGHT BELT — top grain leather 1-inch wide. Flashlight-with-battery on chain. Metal buckle, loop, tip. Tan or Black. Sizes: 22-24-26-28-30-32 in. waist. State size, color.
32 J 7883. (4 oz.). 98¢

5 WESTERN BOOT-STERS . . . simulated leather—fasten over shoes. Boxed. Black or Red. Sizes: 1 (fits shoe size 4½-7), 2 (7½-10), 3 (10½-13), 4 (13½-3), 5 (3½-6). (9 oz.)
32 J 7803. State size, color. 1.84

6 WESTERN GAUNTLETS . . . genuine leather cowboy gloves have cowboy decorations on fringed plastic cuffs. Unlined. Tan. Sizes. Small (6-6½). Med (7-7½). State size.
32 J 7841. Postpaid. 1.19

7 CAPTAIN VIDEO WALLET . . . . of simulated leather, zip closing. Picture, bill sections; identity card, coin purse, lucky coin. Boxed. Brown.
32 J 7835. Postpaid. 1.19
Price includes Federal Tax.

Boys & Girls Costume Suits

Jr. Sizes — Styles A to J at right

• Each Suit is Boxed for Gift Giving!

A BOYS' CAPTAIN VIDEO SUIT . . . officially styled by his TV hero! Junior Ranger suit is sanforized cotton twill with contrast color braid trim. Captain Video emblems on cap and jacket. Elastic back boxer style trousers, button fly. Color Blue. Sizes. 4-6-8-10-12. See chart 5, page 175.
32 J 8318. State size. Shpg. wt. 1 lb. 11 oz. 4.89

B GIRLS' CAPTAIN VIDEO RANGER SUIT . . . styled like brother's! Sanforized cotton twill set is trimmed with contrast colorbraid, Captain Video emblems on cap, jacket. Skirt has two pockets, inset front pleat, 2 back pleats, adjustable waist. Color Blue. Sizes: 4-6-8-10-12. See chart 5, page 175.
32 J 8319. State size. Shpg. wt. 1 lb. 11 oz. 4.89

C 8-PC. ROY ROGERS OUTFIT . . . styled by his all-time favorite! Cotton poplin shirt, twill front chap-pants with covert back; photo-screen designs. Cotton kerchief, gun, simulated leather holster, belt, cotton hat, lariat. Color as shown. Sizes: 2-4-6-8-10-12-14. See chart 5, page 175.
32 J 8325. State size. Shpg. wt. 1 lb. 13 oz. 4.98

D 8-PC. DALE EVANS OUTFIT . . . styled by Roy's companion—the Queen of the Range! Cotton poplin shirt, cotton suede-cloth skirt, vest, photo-screen designs; cotton hat, simulated leather belt, holster, gun, lariat. Color as shown. Sizes: 2-4-6-8-10-12-14. See chart 5, page 175.
32 J 8326. State size. Shpg. wt. 1 lb. 11 oz. 4.98

E BOYS' HOPALONG CASSIDY SUIT . . . he'll ride the range in this sanforized official 7-pc. set! Includes poplin shirt, twill front chap-pants with covert back, kerchief, metal slide, genuine leather belt, holster, gun. Black. Sizes: 2-4-6-8-10-12-14. See chart 5, page 175.
32 J 8313. State size. Shpg. wt. 1 lb. 10 oz. 4.98

G 7-PC. GIRLS' HOPALONG CASSIDY OUTFIT . . . thrill her with this official suit, styled by Hoppy himself! Includes poplin shirt, cotton twill skirt with adjustable waist; kerchief, metal slide; genuine leather belt; holster, gun. Sanforized Black. Sizes: 2-4-6-8-10-12-14. See chart 5, page 175.
32 J 8314. State size. Shpg. wt. 1 lb. 10 oz. 4.98

H ECONOMY PRICED 9-PC. BOYS' COWBOY SUIT . . . includes cotton flannel shirt, cotton suede-cloth pants, plastic chaps, Medallion trimmed cotton suede-cloth vest, lariat, simulated leather holster, belt; gun, kerchief, cotton hat. Color as shown. Sizes: 2-4-6-8-10-12-14. See chart 5, page 175.
32 J 8320. State size. Shpg. wt. 1 lb. 15 oz. 2.98

J GIRLS' 8-PC. COWGIRL OUTFIT . . . a wonderful gift at a low price! Cotton flannel shirt; cotton skirt with elastic at back, plastic trim. Medallion trimmed cotton vest; cotton hat; simulated leather belt, holster; gun, lariat. Color as shown. Sizes: 2-4-6-8-10-12-14. See chart 5, page 175.
32 J 8321. State size. Shpg. wt. 1 lb. 7 oz. 2.98

Military Outfits, Gift Boxed

Jr. Sizes — Styles K to N — at right

K SMART U.S. MARINE UNIFORM . . . dressed in this outfit he too can be one of Uncle Sam's fighting heroes! Cotton twill jacket has metal buttons, contrast color trim. Sport denim pants; button fly. Simulated leather belt; dress cap. Color as shown. Sizes: 4-6-8-10-12-14. See chart 5, page175.
32 J 8330. State size. Shpg. wt. 1 lb. 15 oz. 4.98

M FLORENCE NIGHTINGALE NURSE'S UNIFORM . . . visiting nurse style. She can wear the white cotton broadcloth dress for play! Navy Blue broadcloth nurse's cape has red lining, nurse's insignia. Nurse's cap included. Color as shown. Sizes: 4-6-8-10. See charts 2 and 3, page 175.
32 J 8331. State size. Shpg. wt. 1 lb. 2 oz. 3.98

N FIVE STAR GENERAL'S UNIFORM . . . make him a leader in the neighborhood army! Cotton twill officer's cap, jacket, pants. Metal button trim, and closing, general's insignia on jacket. Button fly pants. Simulated leather belt. Color as shown. Sizes: 4-6-8-10-12-14. See size chart 5, page 175.
32 J 8332. State size. Shpg. wt. 1 lb. 15 oz.. 4.98

ORDER NOW FOR CHRISTMAS — USE THE MONTHLY PAYMENT PLAN

Boys' 3-pc. Suit **4.89** Girls' 3-pc. Suit **4.89**

Boys' 8-pc. Suit **4.98** Girls' 8-pc. Suit **4.98**

Boy's or Girl's 7-pc. "Happy" Suits were ~~6.69~~ ea. **4.98** ea.

Boys' 9-pc. Suit **2.98** Girls' 8-pc. Suit **2.98**

U.S. Marine Set **4.98**

3-pc. Florence Nightingale Uniform **3.98**

5-Star General's Uniform **4.98**

ALL PLASTIC CONSTRUCTION. Go-to-sleep eyes. Saran plastic hair that can be washed, combed and curled. Comes with 4 plastic curlers. 16-IN DOLL. Pink ninon dress ruffled and edged with blue ribbon sash with flower buds
3S J 3904. 16-In Doll (1 lb. 15 oz.) . . **7.95**
18-IN. DOLL. Blue taffeta dress with lace and velvet ribbon trim, flower buds at waist.
3S J 3905. 18-In Doll (2 lbs 8 oz.) 9.95

DYNEL PLASTIC HAIR can be washed, brushed, combed and dyed! New Tintair dye made just for doll's hair, won't harm little girls . . . meets requirements of U. S. Food Laws. Carrot-top and Brown Tintair, 2 applicators, plastic dish, 4 curlers, instructions. Washable plastic doll has sleeping eyes, wears organdy dress.
3S J 3911. 16-in. Doll. (2 lbs. 11 oz.) . . **13.45**
3S J 3910. 14-in. Doll (2 lbs.) 11.45

"TOUSLE TOP" MAMA'S BABY Real fur hair that can be washed and combed. Body, arms and legs of molded Latex rubber, filled with sponge rubber . . . easy to sponge clean again. She'll coo, sigh, cry or say Mama—depending on how tightly she's squeezed. Two-tone dotted organdy dress. Cotton lace trimmed petticoat and panties.
3S J 4293. 16-In. Doll. (2 lbs 12 oz.) **9.79**
3S J 4292. 19-In. Doll. (3 lbs. 5 oz.) 11.59

DY-DEE DOLL
I am an EFFANBEE DOLL
* Fur wig that'll wash
* 6-piece layette
* 8-piece accessory set
* Booklet—"What every young doll mother should know"

DY-DEE DOLL WITH REAL FUR WIG. Can be bathed from head to toe —wig is washable, can be combed. Drinks through a straw. Soft molded rubber, fully jointed. Sleeping eyes 5-pc layette lace-trimmed pink organdy dress, bonnet, lace-edged petticoat, flannel pajamas, sox, booties. 8-pc. accessory set feeding spoon, nipple bottle, package of diapers, bubble pipe, pacifier, bubble bath, 2 drinking straws
3S J 4297. 11-in. Doll with layette and accessories (2 lbs. 5 oz.).. **9.95**
A3S J 4298. 15-in. Doll with layette and accessories (5 lbs.) 14.95
A3S J 4299. 20-in. Doll with layette, accessories (8 lbs.) $5 monthly 21.95

MINIATURE DOLLS—ALL PLASTIC. Go-to-sleep eyes, jointed head and arms. Dolls stand alone.
NUN DOLL. 7 in., holds imported rosary.
3S J 4285. Nun Doll (1 lb. 6 oz.) **1.89**
BALLERINA AND BOY DANCER. Girl is 7½ in. tall, wears net dancing dress, blue cotton slip, rayon panties. Boy 7 in. tall, has wide sash and kerchief at neck and on head (1 lb. 8 oz.)
3S J 4286. Ballerina and Boy . . . . . Set **3.69**
RING BEARER AND FLOWER GIRL. Ring Bearer wears Tuxedo suit, carries 2 rings. Girl wears printed dress, shawl, large hat. (1 lb. 8 oz.)
3S J 4288. Ring Bearer, Flower Girl . . Set **2.59**

"SQUEEZE ME AND I'LL CRY" . . . sounds just like a "new arrival". Soft cotton-filled body . . . head, arms and legs of skin-like Vinyl plastic. Go-to-sleep eyes, realistic arms. Wears a full size diaper under a long flannel robe . . . front edged and tied with rayon ribbon. Tucked away in a beautiful ribbon-bordered and bow-trimmed pink flannel blanket MAGIC MILK disappears as she drinks from her bottle. Set the bottle upright and it is full again. False bottom creates this fascinating illusion, makes dolly's feeding time lots of fun!
A35 J 3920. 20-In. Doll. Washable. Shpg. wt. 5 lbs. **10.95**

"WASH, CURL AND COMB MY HAIR". Blonde Saran Wig of fine plastic strands can be styled in the latest coiffure. Plastic head; go-to-sleep eyes, long lashes. Cuddly soft cotton body Crying voice. Vinyl plastic arms and legs can be washed. Rinon dress trimmed with lace and flower-buds . . . ribbons in her hair. Rayon petticoat and panties. 4 curlers.
A35 J 4294 21-In. Doll. (5 lbs.) **9.95**

"I'M ALMOST REAL"—just push the button on my tummy and in a sweet girlish voice I sing, recite, say my prayers, laugh and talk." Electrical voice unit automatically sets itself to play over and over again in any position. Voice guaranteed. Plastic head with sleeping eyes, long lashes. Arms and legs of skin-like Vinyl plastic . . . can be sponged. Legs jointed so she'll walk if you guide her. Wears a dress and bonnet of bright rayon satin, trimmed with checked material. Pink panties; rayon sox; patent leather shoes. Operates with standard D-cell flashlight batteries.
A35 J 4280. 28-In. Doll. Batteries, instructions. (5 lbs.) $5 monthly. **23.79**

"MAMA'S BABY". Will coo, cry or say Mama. Beautiful go-to-sleep eyes with lashes. Practically unbreakable plastic head. Legs, arms, and body of life-like Latex, filled with sponge rubber . . . can be washed. Rows of red rickrack and red ribbon bows trim her dress and bonnet of perky white permanent organdy. Fine cotton undies are edged with lace.
A35 J 4229. 19-In. Doll. (4 lbs.) **8.95**

BRIDE AND BRIDEGROOM SET. 7-in. tall. All plastic with jointed head and arms. Glassene go-to-sleep eyes. Bride wears white satin gown over net petticoat and rayon panties. Net veil on her blonde wig. Carries a bouquet. Groom wears formal wedding outfit, patent leather effect shoes, gold-color key chain. (1 lb. 4 oz.)
35 J 4271 Bride and Groom. ..... Set **3.69**
35 J 4272 Bride only (13 oz.) **1.89**
SET OF 3 BRIDESMAIDS, 5 in. tall. Moving arms, head, eyes. Satin dresses with braid trim—each dress a different color. Net slips.
35 J 4287. (1 lb. 10 oz.) ..... Set **3.79**

Games For Year 'Round Fun

Items 1 thru 12 shown at left

(1) ELECTRIC FOOTBALL GAME. Vibrating action makes the 22 players move up and down field, blocking and tackling. Plenty of thrills . . . loads of fun. Gridiron markings lithographed on playing surface. All steel construction. Completely safe; U.L. Approved. Includes kicker and passer, 2 goals and 3 felt footballs. 26-in. long, 15¼-in. wide. With cord, plug and rules.
A36 J 3313. For 110-120 volts, 60 cycle, AC only. Shpg. wt. 6 lbs. 6.39

ELECTRIC BASEBALL GAME (Small View). Play batter and fielder! Colored lithographed playing field. Sturdily made! U.L. Approved. 26-in. long, 15¼-in. wide.
A35 J 3315. For 110-120 volts, 60 cycle, AC only. Shpg. wt. 6 lbs. 6.39

(2) ELECTRIC BASEBALL GAME. Batter up . . . pitch the ball! Positions light-up at diamond. With steel ball, 6 wooden base runners and 1 flashlight batter. Sturdy board! Spinner for calculating close plays. 15¾x 13¾-in. With rules of play.
35 J 3312. Shpg. wt 3 lbs. 3.29

(3) VARIETY GAME CHEST. Favorite old and new games. Includes checkers, chess, dominoes, Game of India, baseball, football, golf, etc. Colorful cardboard chest (19⅛x13x2½-in. high). Metal handle and lock. For those "stay-at-home" nights! Instructions.
35 J 3311. (3 lbs. 8 oz.). . . . 2.49

(4) BASKETBALL GAME. Here's an exciting game designed to provide hours of enjoyment for all ages . . . young and old alike will thrill to the fast-paced interest it affords. As many as 6 can play. Score cards and baskets set up at each end of the court. Plastic ball . . . fiberboard construction.
A36 J 3393. Size: 20x12-in. Shipping weight 5 lbs. 3.59

(5) ELECTRIC PINBALL. 5 games in 1. Operates on the 2 flashlight batteries included. Economical . . . shock proof! Colorful translucent domes light up. Automatic set and release trigger. 2-inch, selected wood frame with recessed glass top. Plays Put & Take, Baseball, Bagatelle, Pennants and Twenty-One.
A35 J 3398. 24x14x2-in. Malleable. Shipping weight 11 lbs. 4.98

(6) EASY MONEY. Build an empire; run hotels, theaters; win a lottery; 2 players or a crowd. Dice, cards, wood houses and $20,000 stage money. 18½x 18½-in hinged board.
35 J 3360. (2 lbs. 5 oz.). 1.79

(7) DUAL CHECKER BOARD. Games of wit and skill! Chinese checkers on one side, American version on the other. Chromed 16x18-in. frame with 60 marbles, checkers, instructions.
A35 J 3317. Shpg. wt. 5 lbs. . . . 1.94

(8) BIG BUSINESS GAME. Educational. Teaches the States, capitals, industries. With stage money, 6-playing men, dice, cabinet officers, charts and instructions.
35 J 3361. (1 lb. 7 oz.). . . . . Only 98¢

(9) MEET THE PRESIDENTS. For children 6 or over. Any number can play. 32 presidential coins fit into slots on 19¾x14¾-in. folding map board of U.S. with historical path-ways. Gives background of American Presidents from Washington to Truman.
35 J 3385 (2 lbs. 2 oz.). 2.89

(10) FAMOUS PARCHESI. Hinged board with 2 dice cups, 4 dice, 16 counters, instrs. 15¼x15½-in.
35 J 3318. (1 lb. 9 oz.) 1.02
DELUXE PARCHESI. (Not shown) 18½ x18½-in. Larger than above . . . more pieces, more players.
35 J 3305. (2 lbs. 8 oz.). 2.29

(11) UNCLE WIGGILY GAME. Who can get Uncle Wiggily to Doc Possum's house. Cards direct route. Durable hinged playing board. Complete with instructions. Size, 16x16-in.
35 J 3388. (1 lb. 8 oz.). . . . . 87¢

(12) JUNIOR COMBINATION BOARD. Play "Railroad," "Puss in the Corner," "Checkers," "Steeple Chase," etc. Enough for 12 different games! Hinged board is lithographed on both sides. With spinner, 35 colored markers, rule book.
35 J 3304. In gaily colored gift box. (1 lb. 10 oz.). 1.39

Items 13 thru 17 shown at right

(13) FLOOR MODEL HOME POOL TABLE Sturdy wood construction. Lacquered mahogany finish and Duran plastic trim. Folding legs with locking braces. Adjustable screws on all legs keep the table level at all times. Automatic ball return bracket at each end. Green felt covers playing surface. Includes 16 plastic numbered pool balls and 1 cue ball. 2 rubber tipped cue sticks. Metal racking triangle. "How to Play Pool" booklet. Shipped freight or express from Chicago.

Cat. No.	Overall size	Cue size	Ball size	Shpg. Wt.	Price
B35 J 3306	49½x26 43/4 in.	38 in.	1⅛ in.	341 lbs.	$29.99
B35 J 3307	66x34¾x31 in.	46 in.	1¾ in.	391 lbs.	89.95
B35 J 3308	44½x23¾x28¾ in.	36 in.	1⅛ in.	231 lbs.	18.95
B35 J 3383	40x22x28½ in.	30 in.	1⅛ in.	171 lbs.	13.95

(14) BOWLING ALLEY. Firmly braced folding legs. Smooth hardwood, grooved side for ball return. 52x11½x 21-in. 2½ in tenpins, 2 balls.
A35 J 3374. Malleable. (12 lbs.). . . 3.79

(15) STRAIGHT ARROW GAME! Follow the adventures of "Straight Arrow"! With 20 figures, scenery, spinner, 18 golden arrow cards, instrs.
35 J 3320. (2 lbs. 8 oz.). 2.39

(16) WESTERN GAME! A chance to be Sheriff. Receive rewards as you capture bandits. With 20 figures, play money, spinner, instrs.
35 J 3321. (2 lbs. 2 oz.). 1.79

(17) 4 GAME LIBRARY. 4 Barnyard Animal Puzzles, Fish Pond with 2 fishing poles, clips; 30 Tiddly-winks with 2-in. cup; and U. S. Map Puzzle.
35 J 3334. (3 lbs. 8 oz.). 1.98

Leveling device on each leg

Pool Table 40x22x28½ in.
13.95

Floor Model

Bowling Game Real Action . . . Real Fun! 3.79

Big Value—4 games 1.98

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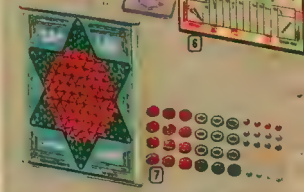

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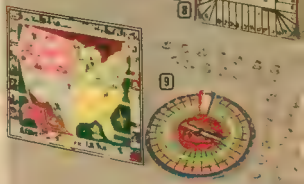

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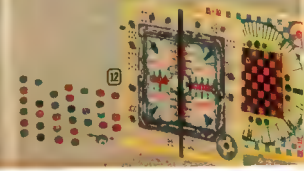

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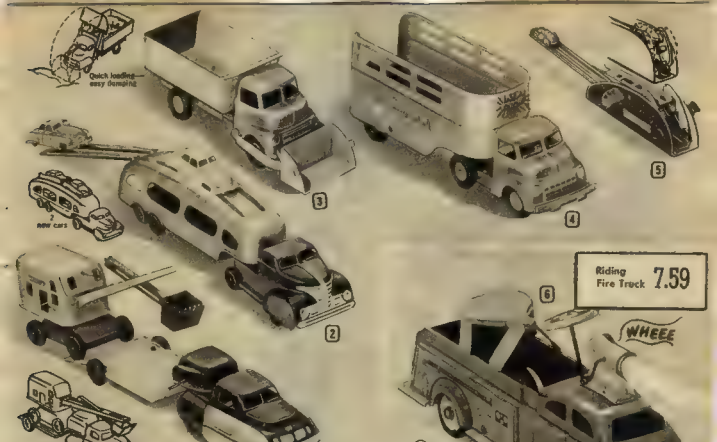


. . . Santa's Favorites

(1) WINCH TRUCK AND SHOVEL. Two sturdy construction toys combined into one! Here is a toy to stimulate any young boy's imagination . . . can be made into many workable combinations. Winch pulls steam shovel on to truck. Truck has loading ramp, ratchet line and hook; brake locks shovel in place. Steam shovel and scoop operate by cranks. Bright enamel with contrasting trim. Shoval 21x6-in. high, 22-in. long overall. All steel.
A38 J 3139. Shpg. wt 9 lbs. 3.79

(2) AUTO TRANSPORT WITH 2 CARS. Looks like the real thing! Double deck trailer with loading rails, carries cars inside or on top. Heavy gauge steel with enamel finish, side decals. Cab and wheels are plastic. 22-in. long.
35 J 5528. (3 lbs. 12 oz.) 2.24

(3) DOUBLE ACTION DUMP TRUCK. Front scoop digs up dirt, swings it overhead and empties into dump body. Side lever for dumping, tail gate opens. Made of enameled auto steel with cab of brightly colored plastic. 4 rubber wheels. The truck and scoop are 19¼-in. overall.
A35 J 5830. Mailable (7 lbs.) 2.29

(4) SEMI-TRAILER VAN. Young Trucker's Special . . . rolls over highways on 6 solid rubber tires! Trailer carries a full shipment of freight. Made of heavy gauge auto type steel—cab is durable plastic. Trailer is detachable; finished in bright baked enamel with cab in contrasting trim. Lithographed cab interior shows authentic dashboard. 3 reflectors on trailer front, spare tire in rear. Cab and trailer measure 21½-in. overall. Mailable.
A35 J 5128. (9 lbs.) 3.39

(5) JET COASTER. Fascinating fun! Coaster car is elevated to upper track by motor-driven lift arm. From there it speeds down to the lower track, then reverses its direction, coasts underneath tracks to be elevated again. Strong motor gives many trips to one winding. Made of lithographed steel with colorful detailing. 21½-in. long.
35 J 5132 Shpg. wt. 2 lbs. 2 oz. 1.29

(6) RIDER FIRE TRUCK. Calling all junior smoke-eaters! Here's a honey of a "blaze-wagon" that's a real speedster. Gets you to "4-11" blazes in a jiffy with siren and blinker light clearing the way. Heavy gauge auto type steel with bright enamel finish. 4 ½-in. wheels with ½-in. solid rubber tires. 31-in. long, 9-in. wide, 15½-in high to steering wheel. holds up to 100 lbs. Steering wheel really turns front wheels! Siren and Red blinker light operated by side crank handle. Takes standard flashlight battery. Battery not included. Mailable
A35 J 5802. Shpg wt 18 lbs 7.59

HAVE YOU ESTABLISHED YOUR SPIEGEL ACCOUNT? SEE BACK OF ORDER BLANK

BUY YOUR CHRISTMAS TOYS NOW—PAY A LITTLE EACH MONTH

(7) TRAIN SET WITH BASE. 15¼-in. metal train and 21⅝x12¾-in. base lithographed with realistic country-town scene. Locomotive, tender, mail car, box car, caboose are driven around track, through tunnels by spring motor.
35 J 5508 Shpg. wt. 2 lbs. 9 oz. 1.98

(8) SULKY RACER. High stepping trotter and uniformed driver. Clock spring motor moves horse's legs, pulls sulky at winning pace! All plastic construction in gay colors. Driver holds plastic reins.
35 J 5531. 9½x3½x6¼-in. (1 lb. 1 oz.) .. 1.69

Do your Christmas shopping from our catalog—avoid the crowds

Exciting Mechanical Toys

[1] JUNIOR EXCAVATOR. Here at last is the ideal toy for children who love to dig in sand and earth. Designed for safety; easy to operate. Kids can scoop, turn and empty . . . all independently controlled operations run by two levers. Extension boom and metal seat revolve 360°. Heavy duty rubber wheels securely fastened. Long-lasting colorful baked-on enamel finish. Jr. Excavator measures 28-in. long, stands 17-in. high Mailable
A35 J 5501. Shpg. wt. 7 lbs **3.29**

[2] HONEYMOON EXPRESS. Miniature streamliner speeds through tunnel and over bridge; airplane zips overhead both operated by spring-motor. Colorful lithographed steel. 9½-in. base.
35 J 5135 With key (15 oz.)..... **1.00**

[3] MILITARY AIRPLANE. Steel construction. Bomber model with cannon, guns and gunners lithographed on side. 2 free spinning propellers. 2 landing wheels and 1 tail wheel. 13¼-in. body, 18-in. wing span. Built-in spring motor.
35 J 8142. Shpg. wt. 1 lb. 4 oz..... **89¢**

[4] ALUMINUM TRACTOR, TRAILER. Wind the powerful clock spring motor and watch the amazing stunts this tractor performs! Pulls heavy loads, climbs steep grades. Shiny finish. Sure grip rubber treads. Detachable 2-wheel dump trailer and removable snow plow included.
35 J 5136. 17-in. (1 lb. 12 oz.)..... **1.98**

[5] SHERIFF SAM. Eccentric fellow, this Sam Wind him up and he starts, stops—even rares up on his back wheels! Sam is dressed in real cowboy hat and boots. His plastic car is driven by frisky spring wound motor. 5¾-in. long.
35 J 5509. Shpg. wt. 12 oz..... **1.19**

[6] STEEL MYSTERY ROBOT BUS. You'll think for certain this bus is driven by human hands once you've seen it perform! Wind and release . . . runs until it hits an object . . . then, presto, it backs up and goes off in another direction. Seems magical! Brightly enameled. 4 rubber tires. Key-wound motor has stop and go switch. Robot bus is 14⅜-in. long.
35 J 5512. Shpg. wt. 3 lbs..... **2.98**

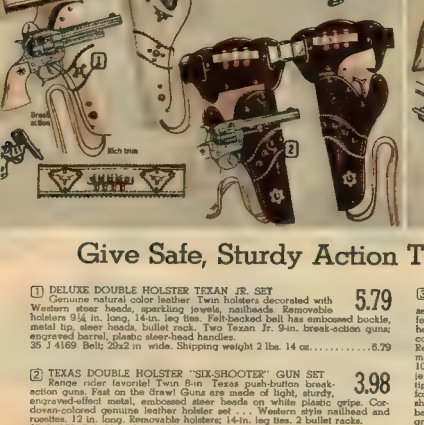
[7] M.P. PATROL CAR Whizzes down the street with machine gun blazing harmless sparks and siren screeching "gangway". Closed no-wind friction motor, 4 rubber wheels. Olive drab body with Army insignia. Measures 9x4x3-in high.
35 J 5114. Shpg wt 15 oz..... **1.29**

[8] STEEL CLIMBING TANK. Climbs steep grades and obstacles with ease! Runs on powerful clock-spring motor. As tank rumbles along, harmless sparks "fire" from turret guns accompanied by "rat-a-tat-tat" machine gun sound. Constructed of lithographed steel with Brown-Green camouflage finish. Sure-grip rubber treads. Exciting action toy.
35 J 5134. 9½-in. (2 lbs. 7 oz.)..... **2.95**

[9] PLASTIC ANTI-AIRCRAFT TRUCK. There's action built into this truck! Swivel cannon mounted on rear fires 4 dummy shells by spring action. Dummy machine gun on hood. Truck runs by no-wind friction motor. Siren wails as truck moves. Rubber tires, side ladders. . . .
38 J 5119. 12-in. long (2 lbs.) **1.79**

[10] ROLLER COASTER. An accurate miniature of the popular Amusement Park roller coaster. Bell tinkles as clock-spring motor elevates cars up ramp to spiral track. Then—action! Cars zoom down the track twisting and turning. Gaily lithographed steel with colorful side booths. (7 lbs.)
A35 J 5122. 19x8¼x9¾-in. high **2.89**

[11] WIND-UP TRAIN. Still the favorite gift of young engineers everywhere . . . the model train. Locomotive has easy-to-wind clock spring motor 4 brightly colored cars hook together easily 5-piece, 36-in. train runs on carpet or floor. Metal construction.
35 J 5117. Shpg. wt. 1 lb. 12 oz..... **1.35**



Give Safe, Sturdy Action Toys—Priced Low

(1) DELUXE DOUBLE HOLSTER TEXAN JR. SET **5.79**

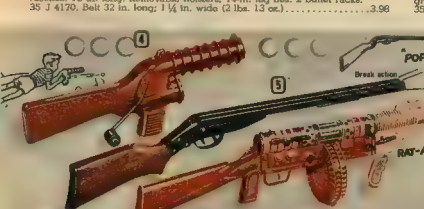
Genuine natural color leather Twin holsters decorated with Western steer heads, sparkling jewels, nailheads. Removable holsters 9¼ in. long, 14-in. leg ties. Felt-backed belt has embossed buckle, metal tip, steer heads, bullet rack. Two Texan Jr. 9-in. break-action guns; engraved barrel, plastic steer-head handles.
35 J 4169 Belt; 29x2 in wide. Shipping weight 2 lbs. 14 oz. 5.79

(2) TEXAS DOUBLE HOLSTER "SIX-SHOOTER" GUN SET **3.98**

Range rider favorite! Twin 8-in Texas push-button break-action guns. Fast on the draw! Guns are made of light, sturdy, engraved-effect metal, embossed steer heads on white plastic grips. Cordovan-colored genuine leather holster set . . . Western style nailhead and rosettes. 12 in. long. Removable holsters; 14-in. leg ties. 2 bullet racks. 3.98
35 J 4170. Belt 32 in. long; 1 ¼ in. wide (2 lbs. 13 oz.)

(3) OUR BEST GENUINE LEATHER SET **10.95**

Here's one of the best double holster sets money can buy! Young wrangler will feel just like his favorite hard-ridin' Western hero when he buckles on this deluxe 2-gun outfit. Top-grain natural color genuine leather styled in true frontier fashion. Removable hand laced holsters are richly decorated with metal saddles set on felt-backed leather strips. Colorful 10½-in. long holsters with numerous nailheads and bright jewels; 14-in. leg ties. 31-in. belt has embossed buckle and tip; two bullet racks. Belt is hand laced in back to allow for lengthening; 3½ in. at widest point. Twin steer heads, shiny nailheads decorate belt. Guns are 12-in. revolving barrel six-shooters; push button break-action with plastic grips. Belt has brown felt backing
35 J 4174. (3 lbs. 10 oz.) 10.95



(4) KAZOOKA REPEATER

Great fun for youngsters! Rapid firing repeater shoots 6 plastic bells . . . one right after the other! So easy to work—safe plastic ammunition bells are loaded in top of the gun and by cranking handle they fire from the lower section. Strong Tenite plastic construction . . . 18x7 in high. Includes 6 light weight plastic bells.
35 J 4164. (1 lb. 12 oz.) **2.39**

(5) DOUBLE BARREL POP GUN. Break action; cocks gun. Pull two triggers and get two loud shots . . . POW! POW! Hardwood stock. Black enameled steel barrel
A35 J 4166 27½ in. overall (4 lbs.) **1.39**

(6) JR. G-MAN MACHINE GUN. Model after gun used by our G-Men! Goes "rat-a-tat" when trigger is pulled . . . harmless sparks fly out of muzzle! Plastic and lithographed steel. Wind-up spring with key
A35 J 4161. 26 in. long (4 lbs.) . **2.29**

(7) HOPALONG ZOOMERANG. Cock gun, press trigger . . . plastic spiral zoomerang shoots out! Pull spring back and it's ready to shoot again.
35 J 4182. Red plastic. (10 oz.) . **89¢**

(8) BUCK ROGER'S SONIC RAY GUN. Buck's own space gun! Press trigger and powerful light beams forth . . . high frequency BZZZ is heard! 7½-in. long all plastic ray gun. Plus interplanetary and Morse Code book.
35 J 4148. 2 batteries (14 oz.) . . . **1.87**

OPEN A SPIEGEL ACCOUNT

Christmas Gifts They'll Play With All Year!

(1) WESTERN COWBOY OUTFIT — 3.98

Authentic Western outfit any "Cowpoke" would be proud to wear! All leather holsters. Sturdy cuffs, spurs, 2 realistic guns. Western neckerchief and steer-beading. 11-in. holsters made of genuine natural finished leather decorated with rosettes and nailheads; 14-in. leg ties. Belt is 30-in long, ¾-in. wide. Twin 8-in. rodeo guns with engraved barrels and embossed steer head plastic grips. 5 ½-in. matching cuffs. Real metal cowboy spurs, nailhead in rosette on leather strap.
35 J 4129. Shpg. wt. 3 lbs. 3.98

(2) DOUBLE HOLSTER SET — 2.98

Genuine Black leather 11-in. holsters with White trim. Center strip has white rosette in middle with red jewel and surrounding nailheads; 14-in. leg ties. Belt is ¾ in. wide and 30 in. long. Two 8½-in. Buffalo Bill guns, horse-head plastic grips—hinge-action loading.
35 J 4171. Shipping wt. 2 lbs. 13 oz. 2.98

(3) ECONOMY HOLSTER SET — 1.98

Budget price! Simulated cordovan colored leather, White trim. Handsome 9½-in. long holsters gayly decorated with rosettes and nailheads; 34-in. belt has 3-bullet rack in center. Matching 8½-in. Buffalo Bill guns have embossed horses' heads on grips — hinge-loading.
35 J 4172 Shipping wt. 2 lbs 6 oz. 1.98

(4) PAIR OF "SIX-SHOOTERS"

Western style repeaters have simulated carved ivory grips; red jewels. Engraved barrels. Break action. 9 in. long.
35 J 4130 (1 lb. 12 oz.) . . . . . Pr. 1.69

(5) WATER PISTOLS AND HOLSTERS — 1.09

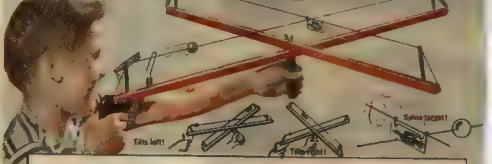
6-in. plastic repeating water pistol fires 300 shots on one filling. Double-6½-in. paper holsters. 29½-in. belt.
35 J 4167 Thrift price (1 lb.) 1.09

(6) "LONE RANGER" PLASTIC GUN

Replica of Lone Ranger's six-gun. Clicker gun pulls harmless smoke when trigger is pulled! Embossed Western designs. Smoke refill included.
35 J 4149. 9½ in. long (8 oz.) 98¢

(7) SHOOTING PLASTIC GUN. 10¾-in. six-shooter actually fires! Revolving barrel shoots harmless, blunt plastic bullets—ejected with little force—adds realistic action! Instructions.
35 J 4150. (9 oz.) 1.28

SHOP EARLY—PAY LATER



(8) EXCITING NEW "WING SHOT" CROSS BOW TARGET GAME — 1.98

- Newest sensation . . . fun for both young and old alike
- "Wing Shot" duck target tests your aim and coordination
- Ammunition and target travel on cross wires . . . easy to operate

All the thrills and sport of shooting duck on the wing! Safe accurate toy that's completely self-contained! Metal target duck and wood ammunition ball permanently fixed on crossed steel wires—nothing to lose or replace! Built with real gun features sturdy foregrip and pistol grip handle with a spring trigger mechanism . . . and it's so easy to work—cock trigger till bow 'til duck begins to slide down wire . . . fire when duck approaches cross point! Speed of moving target is self-controlled. Cross bow angle may be moved to increase difficulty of shot! Tension springs hold wires in place . . . strong wood structure. Mailable.
ASS J 4151. Overall size 34 in. long, 33¾ in. wide, 6¾ in. high. (3 lbs.) 1.98

Give an Airman®

PERSONALIZED! Your name in light reflecting decals. They're easy to apply—stay on indefinitely. Smart gold color.

GUARANTEED for one year against defects in materials and workmanship

REGISTERED! As protection in case of theft or loss, registered number of your Airman bike is kept permanently in our files.

A FULL-SIZE FLIGHT LINER AIRMAN®

(1)—Argyle Uni-Directional tires
(2)—Reinforced, tubular steel frame
(3)—Baked-on enameled truss rods
(4) Streamlined torpedo headlight
(5)—"Heavy-load" luggage carrier
(6)—Deep-seal auto-type steel fenders
(7)—Strong, enameled chain guard

BONUS! $3.95 "Pinwheel" light included with "Flightliner" bikes. 3 colored rings flash around wheel. 4 batteries included.

SAFE—New Departure brake. Red reflector. Plastic handlebar grips. Ball-bearing pedals.

EXTRA STRONG—Sturdy tubular steel frame. Enameled wheel rims. Kickstand.

EXTRA-COMFORTABLE —Free wheeling ball-bearing action gives smoother rides. Big, spring seat saddle covered with leatherette. FINISH—Triple bonderized - resists rust. Baked-on chip-proof enamel Boys' Red with ivory trim. Girls' Dk. Blue; ivory trim. Shpd frt or exp from Ivy in Chgo or near New York, N.Y.—whichever is closer.

26-IN. For youngsters 10 years old and up—with 28 to 33-in leg reach.
LS1 J 2797. Boys' Bike (62 lbs.).....**49.95**
LS1 J 2727. Girls' Bike (62 lbs.).....49.95

24-IN. SIZE. For youngsters 7 to 10 years old—with 24 to 28-in. leg reach.
LS1 J 2738. Boys' Bike (53 lbs.).....48.95
LS1 J 2708. Girls' Bike (53 lbs.).....48.95

B WESTERN BIKE ENSEMBLE

Converts young buckaroo's bike into fast-ridin' bronc. Easy to attach. Fits all 16 to 24-in. bikes. Heavy brown leatherette saddlebag, white plastic fringe, binding, straps; buckles; tie-on rings and bootlace ties. Bar blanket-holster combination. Saddle skirt and metal clamps. Tail streamer. 2 handle streamers.
S1 J 2967. (2 lbs. 5 oz.).....**6 Pcs. 4.98**

C NEW JUNIOR-SIZE BIKES

Features deluxe tubular steel frame
• Semi-pneumatic puncture-proof tires

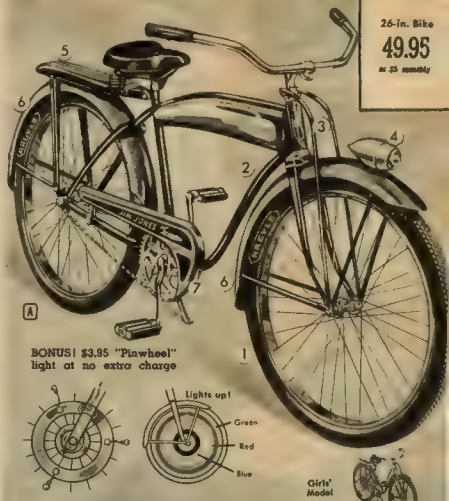
Check these features Unbreakable steel fork. Pedal, ball-bearing head assembly; sprocket; pedals; hubs. Full-sweep steel fenders. Enameled wheel rims. Adjustable chromed handlebar. Adjustable tangent spokes Coaster brake Chain guard. Rear reflector Rubber handlebar grips. 20-in. Boys': Maroon; White trim. 20-in Girls' Blue, White trim. Shpd. frt. or exp. from Chicago.
20-IN. BIKE. 20x1.75-in. tires. For 6 to 8 yr. olds—22x26-in. leg reach.
BS1 J 2775M. Boys' Bike. (39 lbs.)...**36.95**
BS1 J 2725M. Girls' Bike (39 lbs.)....36.95
16-IN. 16x1.75-in. tires. 19-23-in. leg reach. 4- to 6-yr.-olds—Blue; White trim. No brake.
BS1 J 2776M. Boys' Bike (35 lbs.).....26.95
BS1 J 2726M. Girls' Bike (35 lbs.).....26.95

D BIKE BALANCER-TRAINER

All the thrills of a 2-wheeler with tricycle safety. Steel arms extend far enough for perfect balance. Rubber-tired steel wheels adjust to ride on or off ground. Fits 16, 20, 24-in. size bikes.
AS1 J 2979M (3 lbs.).....**2.49**

E 3-PC. HORN AND LIGHT SET

Adds night safety, beauty. Each runs on 1-cell battery—no wires. Batteries incl. HEADLIGHT Positive 2-way snap-on switch. White infra-ray baked enamel finish. 1 ½-in. wide chrome lens bezel.
PEEP HORN: Gives sharp blast, long or short. Easy-to-reach switch. Same finish.
TAIL LIGHT: Red lens glows in dark. White enamel finish.
S1 J 2979. (2 lbs. 7 oz.).....**3 Pcs. 3.98**



From Santa With Love

1 18-IN. DOLL—FUR WIG
Plastic — practically unbreakable! Real fur wig that's such fun to wash, comb, set. Glassene go-to-sleep eyes - - , long lashes . . . pearly teeth. Jointed arms, legs and head. Two-piece skirt-and-blouse effect dress with immense collar—made of cotton pique and lace. Matching panties. Straw hat. Blue shoes with heels.
35 J 4648. (2 lbs. 10 oz.)....5.69

2 14-IN DOLL—SARAN WIG
Saran plastic wig—silky strands that take wash,ng and combing—can be curled! 4 curlers, comb included. Plastic body—movable plastic arms, legs, head. Glassene closing eyes, long lashes. Party dress of checked rayon—blouse effect top accented with rows of lace. Dressing gown of white dotted swiss. Lacy panties.
35 J 4633. (1 lb. 11 oz.).....6.95

3 11½-IN. HARD BODY DOLL
Remarkable value at this low price! Hard body plastic doll—movable arms, legs and head. Mohair wig; glassene closing eyes. Dressed in removable plastic panties and bra—what fun to design and sew a wardrobe for her!
35 J 4276. (11 oz.).....1.59

4 SET OF THREE 7½-IN. DOLLS
Hard plastic dolls, ready to be dressed. It's fascinating to make outfits for this tiny family! Each doll stands alone, has tainted arms. Curly Mohair wigs—one's blonde, one brunette, one redhead. Big painted eyes, pert mouth.
35 J 4277. (12 oz.) .....Set 1.37

5 SWEATER, CAP, BOOTIES
Warm knit set keeps dolly comfy in chilly weather. Bundle her in the turtle-neck sweater, then the cardigan—next comes the tassle cap and booties. All wool set fits 18 to 22-in. dolls.
35 J 4470. (5 oz.).....Set 1.89

6 TAFFETA CARRIAGE SET
Matching cover and pillow case —printed rayon taffeta with net lace and ribbon trim. Cover 24x21 in.; pillow cover 12x14 in.
35 J 4469. (11 oz.).....Set 1.89

7 COWBOY, COWGIRL SET
Western duds for dolls up to 20 in. tall. Cotton overalls, plaid shirt, leatherette chaps and vest, boots. 2-gun leatherette holster with guns, cotton skirt with leatherette fringe, printed kerchief.
35 J 4481. (11 oz.) .....Set 1.98

8 COMFORTER AND PILLOW
Rayon satin, with quilted effect. One side blue, one pink. Fluffy cotton filling. Comforter 20½x17 in.; pillow 7x10 in.
35 J 4473. (1 lb. 8 oz.)...Set 1.89

9 "PAM"—THE DOLL WITH HUMAN-HAIR WIG
Pam has the best type wig for washing, combing and curling—human hair! Yet she's priced as low as doll with synthetic wig. Plastic body, head, arms, legs. Glassene go-to-sleep eyes. Bolero style dress of checked percale, lace-edged blouse and panties. Rayon hose. Outfit includes brush, comb, mirror set, curling comb, 7 curlers.
35 J 4638. 14-in Doll. (1 lb 2 oz.) . . . 7.59
35 J 4636. 18-in. Doll (2 lbs. 6 oz.) 9.79

10 23-IN. DOLL
Human hairs set right into the soft Vinyl head—can be combed, washed and curled just like a child's. Glassene eyes; cotton filled body; arms and legs of washable Vinyl. Crying voice. Blue dotted Swiss dress, organdy apron, bebushka; slip, panties. Plastic purse with comb, 6 curlers. She'll walk if you lead her by the hands. (5 lbs.)
A35 J 4649..17.95

- Human hair—best type for washing, curling
- Comb, curlers included

7 BEGINNER MARIONETTES. Loosely jointed, with easy-to-operate double ring guides. (Not shown). About 13-in. tall, gaily painted and costumed. Sambo jitterbugs, plays the guitar; Pinocchio glides on removable skates; Clown performs comically; Cowboy swaggers and raises pistol. Instructions.
35 J 3907. SAMBO (1 lb. 7 oz.) **1.69**
35 J 4044 PINOCCHIO (1 lb. 7 oz.) 1.69
35 J 4045 CLOWN (1 lb. 7 oz.) 1.69
35 J 4046. COWBOY (1 lb. 7 oz.) 1.69

8 TETO THE CLOWN. A professional type marionette with strpizne control as illustrated. All-plastic head, arms and feet. With instructions.
35 J 4049. TETO. Shpg. wt. 13 oz. **3.49**

1 STANDING TEDDY BEAR. He's 25-in. tall—stands firmly on shoe-type feet. Luxurious two-toned plush; cotton filled body. Big red buttons trim his vest. Rayon taffeta ribbon bow. Glass eyes, firmly sewed in place.
A35 J 4052. Shpg. wt. 8 lbs. . **4.98**

2 MR. FLOPPY CLOWN. A precious toy or a wonderful bed decoration. His giant size will thrill your child—he's 37-in. tall, cotton filled! Bright velvet suit with felt button stripes. Bouncing collar; felt shoes. Sits or stands.
A35 J 4011. 5 lbs. **12.95**

3 STANDING PANDA. He's cotton filled plush; 30-in. tall to the top of his cute little hat! Taffeta pantaloons are sewed on, can't be torn off by curious tots; button-on straps. Built-in arms; a child can walk along and hold his hand. Moving eyes; firmly sewed nose and mouth. Bell in ear.
A35 J 4070. Shpg. wt. 9 lbs **4.98**

4 DONALD DUCK. 13½-in. tall; covered with washable vinyl plastic, electronically sealed. He's colorfast, durable, will not crack, chip or peel. Filled with soft cotton. Wears a smart sailor suit.
35 J 4076 Shpg. wt. 6 oz. ..... **98¢**

5 CUDDLY SQUIRREL. Made of 100% virgin vinyl plastic . . . he's double sealed, steam resistant, easily washable. He just loves rough-and-tumble play . . . yet he's softly stuffed and cuddly. Reinforced stitching at all corners. Painted features. 9½-in. tall.
35 J 4034. Shpg. wt. 1 lb.. **1.89**

6 PONY AND SCOTTY. A cute, washable twosome! Easy to clean with a damp cloth, soft to grasp in baby hands. Beautifully shaped. Lovable expressions; screened-on features . . . nothing for baby to pull off. Pony has vinyl plastic mane, tail and saddle; measures 7½-in. tall. Dog is 6½-in. tall.
35 J 4035. Shpg. wt. 1 lb.... **1.79**

9 TINKER TOYS. A famous favorite! White birch pieces; smoothly sanded, easy to assemble. Build actual models or simple toys. 100 pc. (1 lb. 2 oz.) **1.11**
35 J 4910
130 pc. (1 lb. 12 oz.)
35 J 4911..... 1.58
164 pc. (2 lbs. 8 oz.)
35 J 4912..... 1.98

10 33 BLOCKS. All wood 11½ x 6¼-in wagon. (2 lbs. 4 oz.)
35 J 4913 **1.87**

11 "AUTRY" TOY. Decorated with picture of Gene Autry in typical Western dress. Blows up into clever roly poly or punching bag. Sand in base keeps him upright. Heavy vinylite plastic, electronically welded seams. (3 lbs. 5 oz.)
35 J 4950..... **2.49**

Huntmaster

Model 128
3-shot
Repeater
Shot Gun

23.95
or $5 monthly

A. — Smooth working bolt action
B. — Tapered blued steel barrel
C. — Positive, thumb-operated safety
D. — Easy takedown for cleaning, etc.
E. — Clip holds 2 shotgun shells, plus 1 in chamber—total: 3 shells
G. — Walnut stock with full pistol grip
H. — Fitted rubber pad absorbs gun recoil

Give A Gun For Christmas

1 HUNTMASTER MODEL 128

There isn't a hunter who wouldn't be proud and thrilled to own this bolt action shot gun . . . It's rapidly becoming one of the country's most popular models. Equal in quality, beauty, eye-appeal to any gun of this type. Priced low, too!

Stock: One-piece American Walnut stock with full pistol grip. Rubber recoil pad.

Barrel: Full choke blued steel barrel. Tapered from chamber to muzzle. Bead front sight. Takes standard 2¾-in. shells

Magazine: Clip magazine holds 2 shells with 1 in chamber—capacity 3 shells.

Action: Smooth bolt action. Positive thumb operated safety. Easy takedown for cleaning and storing. Overall gun lengths—12 and 16-gauge, 48-in.; 20-gauge, 46-in.

Ga.	Barrel	Approx Weight	Shpg. Wt.	Catalog No.	Price
12	28 in.	7¼ lbs.	11 lbs.	A50 J 1153M	$29.95
16	28-in.	6½ lbs	10 lbs	A50 J 1154M	29.95
20	26-in.	6¼ lbs.	10 lbs.	A50 J 1156M	29.95

2 HUNTMASTER 12-GA. MODEL 40

New model . . . one of the finest we've ever offered! Adjustable "Multi-Choke" makes it one of our most versatile guns. Handles skeet, upland, waterfowl shooting.

Stock: Grooved slide handle and full pistol grip stock of American walnut. "No-Shoc" recoil pad with inner cushion of resilient rubber jell helps soften recoil.

Barrel: Proof tested 28-in. steel barrel chambered for 2¾-in. shells. Simple, finger tip motion sets "Multi-Choke" from open cylinder to full—"9 guns-in-one" at a single twist! Bradley type bead sight.

Magazine: Tubular— holds 5 shells with 6th in chamber. Wood plug included.

Action: Hammerless slide action, side ejection. Button safety; action release. Weighs 7½ lbs., 48-in. overall

A50 J 1047M. Mailable. (11 lbs.). . . . 64.75

64.75

3 BROWNING AUTOMATIC

Stock. French Walnut stock, fore arm. Half pistol grip.

Barrel: Select steel Modified choke on A50 J 1130M, others full. Matted sight line, Trigger slide safety. Double extractors Takes 2¾-in. shells

Magazine 5 shot capacity. Magazine cut-off for unloading shells. Plug included.

Action. Hammerless automatic action. Overall gun lengths—12 gauge 49½-in.; 16 gauge, 47½-in. Guns are postpaid.

112.85

Gauge	Barrel	Weight	Catalog No.	Price
12 Std.	28-in.	8 lbs.	A50 J 1130M	$112.85
12 Std	30 in.	7 lbs.	A50 J 1127M	112.85
16 Std.	28 in.	8 lbs.	A50 J 1133M	112.85
16 Lt.	28 in.	7 lbs	A50 J 1134M	125.75

4 REMINGTON MODEL 512A

Famous Remington quality.

Stock: One piece American Walnut stock with pistol grip.

Barrel: 25-in. blued steel barrel with crowned muzzle. Metal bead front sight, step adjustable sporting rear sight.

Magazine: Tubular magazine holds 22 short, 17 long or 15 long rifle .22 cartridges.

Action: Bolt action . . . cocks on opening of bolt. Thumb safety. Takedown. 43-in. overall; weighs about 5¾ lbs

A50 J 1278M Postpaid ($6 monthly)..32.30

32.30

5 STEVENS MODEL 86 RIFLE

Stock: One-piece military, walnut finished hardwood — pistol grip; fitted butt plate.

Barrel: 24-in. round tapered blued steel barrel, crowned muzzle. Bead front sight, open middle sight with elevator.

Magazine. Tubular—holds 21 short, 17 long or 15 long rifle .22 cal. cartridges

Action: Self-cocking bolt action. Easy takedown. 44-in. overall; weighs about 6 lbs. A50 J 1276M Mailable. (10 lbs.). . . 25.95

25.95

6 STEVENS MODEL 15 .22 CAL.

Stock: One-piece Walnut finished stock, fore end

Barrel: 24-in. tapered, blued. Bead front sight, adjustable rear. For .22 short, long or long rifle cartridges

Action: Sate bolt action. Must be hand cocked to fire— safety lock prevents accidental discharge. Takedown. 40-in. overall; weighs about 6 lbs

A50 J 1202M. Shpg. wt. 7 lbs.....12.25

12.25

NO CHARGE FOR CREDIT ON BROWNING OR REMINGTON GUNS

Pay As Little As $5 Monthly

1 MOSSBERG 142 AND SCOPE — **33.90**

Stock: Monte Carlo style; Walnut. Sling strap on left side of stock — hinged fore end.
Barrel: 18-in round tapered with crown muzzle. Famous Mossberg 4X4 scope sight, post front sight, adjustable peep sight.
Magazine: Clip fed 7-shot magazine; shoots .22 short, long or long rifle cartridges
Action: Bolt action—new handle design 36-in. overall; weighs about 5 lbs.
A50 J 1290. With scope. Patpd. . . 33.90
A50 J 1292. Without scope. Patpd. 28.95

2 MOSSBERG 151K AUTOMATIC — **41.90**

Stock: Genuine Walnut Monte Carlo, built-in cheek piece.
Barrel: 24-in. tapered, crowned muzzle. 4-power 4X44 scope sight, open adjustable rear sight, blade front.
Magazine: Straight line feed, holds 15 long rifle .22 cartridges. Slock loading.
Action: Fast Automatic action. Takedown 44-in overall; weighs about 6 lbs.
A50 J 1288M. With scope. Patpd. . .41.90
A50 J 1283M Without scope. Patpd 31.95

3 WINCHESTER 74 AUTOMATIC — **37.35**

Stock 1 piece Walnut sporting type with pistol grip
Barrel: Tapered 22-in. crowned muzzle. Bead front, open rear sight
Magazine: Straight line feed holds 20 short or 14 long rifle .22-cal. cartridges.
Action. Self-loading automatic action Cross lock safety. Takedown. 41¾-in. overall; weighs about 6¼ lbs.
A50 J 1337M. Postpaid. $5 monthly. . .37.35

4 MOSSBERG 16-GA. REPEATER — **31.95**

Features dual purpose "C-Lect-Choke", cuts gun recoil
Fast thumb-operated safety with red and green position indicators
Stock: Monte Carlo design hand rubbed walnut finished stock. Grooved finger grip
Barrel: 26-in. barrel, "C-Lect-Choke" gives settings at full, modified or improved cylinder choke (or any setting in between).
Magazine. Detachable clip holds 2 shells with 1 in chamber Takes 2¾-in. shells
Action: Cocks on up-stroke of bolt Double extractors. Easy takedown. Model 190 45½-in overall, weighs 6½ lbs.
A50 J 1029M 190—16-ga. Patpd. **31.95**
A50 J 1911M Extra clip for 190 (8 oz.) 1.98
A50 J 1031M. 185K—20-ga. Patpd. . . 29.95
A50 J 1912M. Extra clip for 185, (8 oz.) 1.98

5 WINCHESTER MODEL 25 GUN — **79.95**

All around 12-gauge shotgun of traditional Winchester craftsmanship. Handsome in appearance, reliable in performance
Stock: American walnut. Full pistol grip, grooved slide handle. Composition butt.
Barrel: Winchester proof tested, bored with utmost attention to uniformity throughout 28-in length, full choke only Bead front sight. Takes standard 2¾-in. shells.
Magazine: Holds 4 shells, plus 1 in chamber making a 5 shot repeater With plug
Action: Famous Winchester slide action. simple, lightning fast, dependable. Positive cross bolt safety. Triple safety loading feature. Side ejection. No take down. 47½-in. overall; weighs about 8 lbs
A50 J 1093M Postpaid. $6 monthly . .79.95

NO CHARGE FOR CREDIT ON WINCHESTER OR MOSSBERG GUNS

Model 12 12, 16, 20-ga. Shotguns

98.15

or $8 monthly

A — Cross lock safety . . . can't jar loose
B — Jam-proof slide action . . . field prover
C — Magazine holds 5 shells, 1 in chamber
D. — 1-pc. receiver, closed at rear, top
E. — American walnut stock, slide handle

6 WINCHESTER MODEL 12

in the field . . . or on the skeet range—you'll shoot this gun with confidence because the Model 12 is proof-tested for unexcelled shooting qualities.
Stock. American walnut pistol grip stock. Grooved slide handle, composition butt.
Barrel Proof-tested for uniformity, strength and pattern performance. Takes standard 2¾-in shells. All guns have 28-in barrels (47½-in. overall) except 12-ga., A50 J 1061M which has 30-in. barrel (49½-in overall)
Magazine: 6 shell capacity—5 in tubular magazine, 1 in chamber. With plug.
Action: Trouble-free slide action. Side ejection. Easy takedown. Postpaid.

Ga.	Choke	Catalog No.	Weight	Price
12	Full	A50 J 1061M	7¼ lbs.	$98.15
12	Mod	A50 J 1070M	7¼ lbs.	98.15
16	Full	A50 J 1063M	6¾ lbs.	98.15
16	Mod.	A50 J 1064M	6¾ lbs.	98.15
20	Full	A50 J 1065M	6¾ lbs.	98.15

HEAVY DUCK GUN. Same as above but chambered for 3-in. shells that hold 1¾-ounces of shot 49½-in overall
A50 J 1036M. Weighs 8¾ lbs. Patpd. 109.65

DAISY AIR GUNS

- "King of the BB Guns" . . . shoots and handles like a real gun, yet safe
- A gift a boy would choose for himself
- Provides year 'round fun for everyone

Before ordering, check the laws in your community regarding the sale of air guns.

An Air Gun . . . The Gift Every Boy Treasures

1 DAISY "TARGETTE" OUTFIT
- Nifty 10-in. chrome-plated pistol
- Red plastic gallery, spinner targets
- Fun for everyone 8 years or older

Marvelous Daisy target pistol set guaranteed for 1 year! Target pistol holds 400 BB pellets per loading . . . fires accurately up to 12 feet. Adjustable rear sight. Red plastic backstop with White spinners. 800 BB pellets, one-third regular BB size, included. Instructions for loading and firing air pistol. Mailable from Chicago.
50 J 1451. Shpg. wt. 2 lbs. **5.19**

2 DAISY "2-WAY" PUMP GUN OUTFIT
- 2 separate barrels interchangeable
- 2 kinds of ammunition, steel and cork BB's
- 2-power magnifying scope sight—mounted

Can be fired indoors or out. Interchangeable barrels—fires cork or steel BB's. 37-in. 50-shot pump action repeater has wood stock, engraved receiver, sporting rear sight, blade front. Metal bell ring target, 5 cardboard targets. 350 BB's, 10 cork BB's. Mailable. **10.29**
A50 J 1417. Outfit (10 lbs.)
Gun only—steel BB barrel, no scope.
A50 J 1412. Shpg. wt. 5 lbs. 6.98
A50 J 1472. 1600 Daisy BB Shots (7 oz.) 49¢

3 DAISY "GUN-N-SCOPE" OUTFIT
- Red Ryder 1000 shot carbine—36-in. long
- 2-power scope sight—cross hair setting
- Bell ringing target and 25 card inserts

Lever action carbine, like real Western saddle gun! Red Ryder's picture and signature branded in Walnut finished Hardwood stock. Blued metal parts. Saddle ring on left side has 16-in. leather thong. Open rear sight, blade front sight. 350 BB pellets; instructions Mailable from Chicago.
A50 J 1415. Complete Outfit (8 lbs.) . . **7.29**
A50 J 1410. Gun only—no scope (7 lbs.) 5.19
A50 J 1472. 1600 Daisy BB Shot (7 oz.) . . 49¢

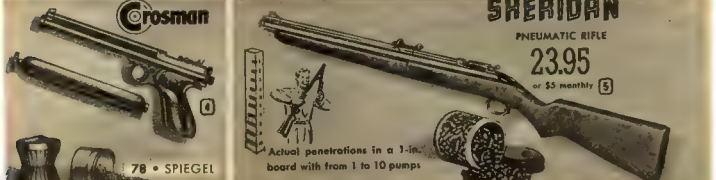
4 CROSMAN .22-CALIBER CO_2 PISTOL
- Muzzle velocity of 600 ft. per. sec. at full power

Holds sufficient CO_2 for 30 shots—refill cylinder supplied with pistol gives enough CO_2 for total 800 shots—easy to refill. Barrel reservoir holds gas. Single shot model—no recoil. Precision rifling; positive safety. Open front sight, adjustable rear sight. Shipped express only. Prepaid. **19.95**
B50 J 1429M. Pistol length 10-in.
A50 J 1486M. 500 pellets for above gun. Postpaid. . . . 2.15

5 SHERIDAN .20 CAL. "SILVER STREAK" PNEUMATIC RIFLE
- Controlled power . . . each "pump" of handle increases power penetration

Barrel: 3mm (.20 cal.) micro-rifled. Over-and-under model with rust proof barrel and piston tube. Adjustable open rear sight and blade front sight. **Stock:** Full length Mannlicher type genuine Walnut stock.
Action: Bolt action single shot. Safety automatically in position when cocked. Shoots solid-nosed, straight-sided pellets listed below.
A50 J 1401M. 37-in. overall, weighs 5 lbs. Postpaid. **23.95**
A50 J 1480M. 500 pellets for Sheridan .20-cal. rifle only (2 lbs.). 2.35

SEE OUR FALL AND WINTER CATALOG FOR A COMPLETE SELECTION OF GUNS AND ACCESSORIES



WATER MASTER SAFE V-BOTTOM LIGHTWEIGHT BOAT WATER MASTER

12 and 14 Ft. Favorites of All Sportsmen

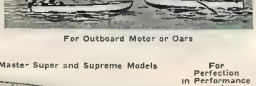
These safe-V-bottom boats are especially suitable for use with either outboard motor or oars. Motors up to 9 H.P. are recommended. Simple to handle under outboard-motor power. The safe V-bottom design makes them ride safely through rough water and pass easily through shallow waters.

Light in Weight, Easy to Beach

Water-Master Boats are the finest boats of their type ever offered. Built of quality materials by master craftsmen, incorporating proven design principles—they offer the maximum of safety, comfort, durability and ease of handling both in and out of the water.

Light to Carry on Portage—Pack on Car Top for Trip

Priced F.O.B. Chicago



For Outboard Motor or Oars

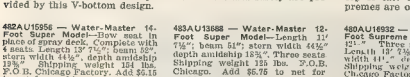
WATER-MASTER

Sturdily Constructed Boats

Water-Master Supreme and Super Models Specifications: Staunch, speedy, easily maneuvered with ⅛", 5-ply water-proof boned plywood bottom and ¼", 3-ply sides permanently sealed . . . Full length splash deflectors and curved, tumbled in transom . . . Varnished interior . . . Exterior: white topside and green below splash deflectors. . . . Sturdily constructed in every detail.

Safe V-Bottom Water-Master Super and Supreme Models

For Perfection in Performance and Appearance



- Light Weight—Portable
- Aircraft Type Construction
- 3 Color Durable Finish
- Tumbled in Curved Transom
- Full Length Splash Deflectors
- 5 Ply ½" V-Bottom

Water-Master Super Models Open Style

The ideal craft for the rough water fisherman, easily rowed yet fast under outboard power with the style and trim appearance that gives pride of ownership. Both comfort and safety are provided by this V-bottom design.

482AU15956 — Water-Master 14-Foot Super Model—Row seat in place of spray deck. Complete with 4 seats. Length 13' 7¼"; beam 52", stern width 44⅛", depth amidship 19⅜". Shipping weight 184 lbs. F.O.B. Chicago Factory. Add $6.15 to net for packing carton.
Mfr's. Sugg. Retail $212.75

483AU13688 — Water-Master 12-Foot Super Model—Length 11' 7⅛"; beam 51"; stern width 44⅛", depth amidship 18⅜". Three seats. Shipping weight 135 lbs. F.O.B. Chicago. Add $5.75 to net for packing carton.
Mfr's. Sugg. Retail $182.50

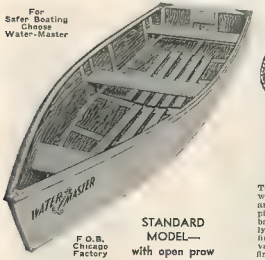
Water-Master Supreme Models with Spray Deck

An all around boat in the popular 12 and 14 foot lengths. Easily handled with oars and light enough to be used in transporting on top of car. Built of quality materials these Water Master Supremes are of proven design and remarkable performance.

480AU16932 — Water-Master 14-Foot Supreme Model—Spray deck 12". Three seats and cockpits. Length 13' 7⅛"; beam 52", stern width 44⅛", depth amidship 19⅜". Shipping weight 189 lbs. F.O.B. Chicago Factory. Add $6.15 to net for packing carton.
Mfr's. Sugg. Retail $225.75

481AU14588 — Water-Master 12-Foot Supreme Model Length 11' 7⅛"; beam 51"; stern width 44⅛"; depth amidship 18⅝"; spray deck 42½". Two seats. Shipping weight 130 lbs. F.O.B. Chicago Factory Add $5.75 to net for packing carton.
Mfr's. Sugg. Retail $184.50

For Safer Boating Get a Water-Master



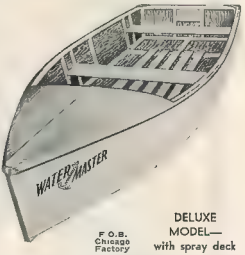
STANDARD MODEL— with open prow

F.O.B. Chicago Factory

WATER MASTER

Water-Master Standard and DeLuxe Models

Specifications: Tough ⅛" patented special marine waterproof boned plywood bottom and ¼" 3-ply sides. . . . Solid clear pine rib frame work. . . . All seams, battens and frames are permanently sealed watertight. . . . Interior finished in waterproof marine spar varnish. Exterior in green bakelite finish.



DELUXE MODEL— with spray deck

F.O.B. Chicago Factory

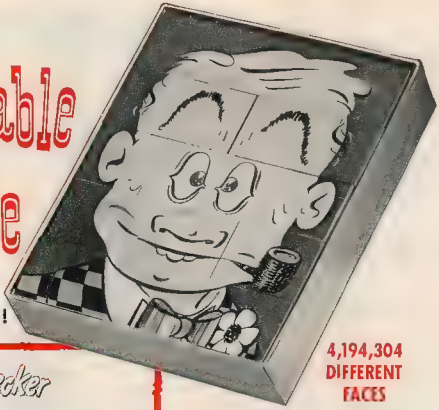
1351AU10196—Water-Master 12 Foot Standard Model—Exclusive V-bottom construction. Complete with 3 seats and oarlocks. Outside in green marine bakelite finish. Beam width 44", stern width 30"; depth amidship including bottom 17". For use with outboard motor or oars. Shipping weight approx. 87 lbs. F.O.B. Chicago Factory. Add $4.65 to net for packing carton.
Mfr's. Sugg. Retail $135.95

1352AU10946—Water-Master Deluxe Model Deck Model illustrated at right. Sun e general specifications as above with two seats built, plywood foredeck that protects the interior from speed-thrown spray. Two seats. Shipping weight approx. 90 lbs. F.O.B. Chicago Factory. Add $4.65 to net for packing carton.
Mfr's. Sugg. Retail $145.95

Order Early to Allow Ample Time for Delivery

Changeable Charlie

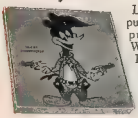
EVERY DEALER'S BASIC PROFIT ITEM!



4,194,304 DIFFERENT FACES

As long as children are curious, they'll go for Charlie's 4,194,304 different faces! He glares, smiles, wears a straw hat, goes bald! Lithographed in six brilliant colors. Size per attractively-boxed unit, 5¼" x 6¾". Minimum order, two dozen. Packed in master shipping carton, weight approx. 23 lbs.

Woody Woodpecker



Look! New "Juggle Puzzle!" Six puzzles to box; six pieces per puzzle! Features WOODY WOODPECKER, OSWALD RABBIT, LITTLE ROQUEFORT, WALLY WALRUS, ANDY and MIRANDA PANDA! Beautifully lithographed; laminated on heavy cardboard. Over 46,656 combinations!

BOZO THE CAPITOL CLOWN *

The kiddies' favorite . . . backed by a promotional powerhouse of records, books, TV! BOZO grins, laughs, cries, blows bubbles, puts hands up in amazement. Over a million changes possible with the ten, full-color lithographed wood blocks. Size per attractively-boxed unit, 7" x 7". Minimum order, two dozen. Packed in master shipping carton. weight approx. 27 lbs

© CAPITOL RECORDS INC.

Write your factory representative

SOUTHWEST . . Hughes and Stocks, Room 1064 Santa Fe Bldg., Dallas, Texas

MIDWEST	EAST	SOUTH	WEST
MR. HUGH D. KENNEY 1443 Merchandise Mart Chicago, Illinois	JOSEPH J. BARNETT, Inc. 260 Fifth Avenue New York, New York	WM. A. YARBOROUGH Atlanta Toy Mart 84 Tenth St., N.W. Atlanta, Georgia	MR. KEN ROBERTS Western Merchandise Mart 1355 Market Street San Francisco, California

GASTON MANUFACTURING CO. 234 W. SECOND ST., CINCINNAT 2 OHIO

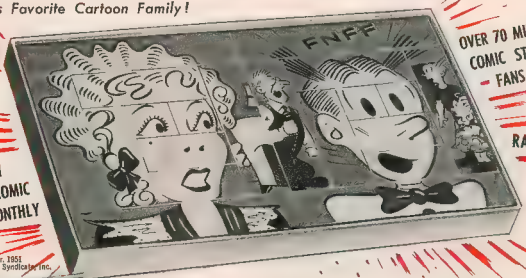
MADE EXCLUSIVELY BY AMERICAN TOYS

GASTON PRESENTS

Blondie and Dagwood

Now on . . . BLONDIE and DAGWOOD INTERCHANGEABLE BLOCKS!

America's Favorite Cartoon Family!



MOVIES

A MILLION BLONDIE COMIC BOOKS MONTHLY

OVER 70 MILLION COMIC STRIP - FANS -

RADIO

© Copr. 1951 King Features Syndicate, Inc.

LOVABLE! LAUGHABLE!

NOW CHANGEABLE!

Changeable Charlie! Bozo! Woody!
Now, Blondie and Dagwood at their ever popular, heart-warming best on Gaston interchangeable blocks!
Mr. Dithers, Woodley, Daisey, the pups and entire Bumstead family all add to the fun.
Put Blondie's head on Dagwood's shoulders . . .
Change their expressions . . . Change their clothes . . .
Simply by rotating blocks! All the features of the already successful Gaston line plus sales potential provided only by America's favorite cartoon family!

Blondie and Dagwood lithographed in *four* brilliant colors. Size per attractively-boxed unit *10⅞" x 6⅝"*. Minimum order *2 dozen.*

Change Picture By Rotating Blocks!

Over a Trillion Combinations Possible!

GASTON MANUFACTURING CO., 234 WEST SECOND STREET, CINCINNATI 2, OHIO

horsman

good will *is the*

powerful influence

that makes customers eager

to return to your store

Since 1878 horsman has helped to build good will for many of the finest merchandising organizations in the country.

america's best-known and best-loved dolls

america's newest and most life-like dolls

the cutest thing

we've seen . . .

you must see **sleepy**

. . . we predict

that she will be

the talk of the Toy Fair

horsman dolls, inc.—200 Fifth Ave., N.Y. 10, *Factory:* Trenton, N. J.

dolls

ELECTRIC FOOD MIXERS

KITCHENAID MODEL EK4-B

The new large capacity Kitchenaid mixer for household use. Larger bowl (4 qt.) with proportionately larger unit. Exclusive with the Kitchenaid is the planetary action head; the beater or whip is carried around a stationary bowl, while beater turns on its own axis, in the opposite direction. Outstanding results are obtain through this positive mixing action in superior food results. Universal ⅓ h. p. motor with 10 speeds governor controlled assures full motor power at all times. Self-lubricating bearings require no oiling. Power for driving different attachments conveniently located in front—no power adapter is necessary. Baked on white enameled finish with bright parts in stainless steel.

No. FE-K4B—Regular equipment includes 4 qt. tinned steel bowl, wire loop whip and combination flat beaters. Ship wt. 31 lbs

. . K.C.-O.C. 1 or 2 **EYJO** $92.50
Net each 3, up **ICKC**

KITCHENAID MODEL K5-A

Kitchenaid Model K5-A. New Large family size. Ideal for the country home. Has the extra capacity and power for larger requirements, and easily drives the various attachments available with out any power adapter. Standard equipment includes 5 qt. tinned steel mixing bowl, wire loop whip and combination flat beater—pastry knife. Universal motor develops ⅛ H. P. on heavy loads. Motor bearings are self-lubricating. Has 10 definite speeds. Exclusive planetary beater action—beater travels around bowl in one direction, while turning on its own axis in opposite direction. Zinc die casting motor housing and stand. Baked on white enameled finish. Overall size: height 17. in.: base 11x12 in. Wt. 29 lbs Ship wt. 37 lbs.

K.C.-O.C.
Net Each

No. FE-K5A. . 1 or 2 **JKXJ** $105.00
3, up **EJKJ**

KITCHENAID MODEL E3C

Standard size Kitchenaid a symbol of quality distinctly its own—higher performance with greater service for such little more in cost. Faster and better results through its planetary action—the head moves slowly about in a circle while the fast moving blades thoroughly mix and aerate the batter to perfection. Ten definate speeds controlled by electric governor assures full motor power at all times

Universal type motor of ⅓ h.p. Amply meets the needs of all requirements. No extra power adapter is neccessary for driving attachments. Handsomely styled in gleaming white with black trim. Mixing bowl is transparent heat resisting glass, accented with black trim. All bright parts in stainless steel. Requires no attention motor bearings are lubricated for the life of mixer. Attachments are instantly connected and easily cleaned. Ship. wt 26 lbs

No. FE-3C – Standard assembly includes 3 qt. bowl, and all purpose beater.

. . K.C.-O.C. 1 or 2 **UCJK** $59.50
Net each 3, up **UAKY**

ATTACHMENTS FOR KITCHENAID MIXERS

No.	Attachments and models they fit	K.C. - O.C. Net Each	
FE-BU	—Buffer for all models	UIY	$5.50
FE-CO	—Can Opener for all models	OAY	4.40
FE-3BCS	—Colander and Sieve Set for 3A and 3B	LKC	6.40
FE-3CCS	—Colander and Sieve Set for 3C only	LKC	6.40
FE-K4BCS	—Colander and Sieve Set for K4 and K4B	LAO	7.55
FE-K5ACS	—Colander and Sieve Set for K5A only	YKAC	17.05
FE-K4BDH	—Dough Hook for K4 and K4B	YXI	1.80
FE-K5ADH	—Dough Hook for K5A only	OJA	4.35
FE-FC	—Food Chopper for all models	JUA	11.55
FE-JEM	—Juice Extractor—metal—for K4B and K5A	EIY	10.20
FE-JE	—Juice Extractor—complete—for 3A,3B, and K4,K4B	OEO	4.10
FE-3CCF	—Ice Cream Freezer, 2 Qt. for 3A,3B and 3C	YKYC	15.95
FE-K4BCF	—Ice Cream Freezer for K4 and K4B only	YKYC	15.95
FE-K5ACF	—Ice Cream Freezer for K5A only	YKYC	15.95
FE-K5AWJ	—Ice of Hot Water Jacket for K5A only	OUK	3.60
FE-KS	—Knife Sharpener for all models	OYX	3.30
FE-OD	—Oil Dropper for all models	UKX	4.70
FE-APC	—Pouring Chute for K5A only	YLY	2.20
FE-PS	—Pea Sheller for all models	LKC	6.40
FE-K5AC	—Splash Cover	YLY	2.20
FE-VR	—Vegetable Slicer and Grater — Rotor Type	JKU	11.00
FE-VD	—Vegetable Slicer	YLXY	22.55
FE-VC	—Coarse Shredder Plate	UXI	5.25
FE-VF	—Fine Shredder Plate	UXI	5.25
FE-VI	—Ice Chipping Plate	UXI	5.25
FE-VP	—Slicer Plate	AXJ	14.30

Replacement Parts for Kitchenaid Mixers

FE-3CPB	—Bowl 3 qt. pyrex for 3A,3B and 3C	YKO	1.65
FE-K4TB	—Steel Bowl	ULY	5.50
FE-K5ATB	—Steel Bowl	LKC	6.60
FE-3BAB	—Beater—all purpose	YXO	1.80
FE-3CAB	—Beater—all purpose—for 3C only	YXO	1.80
FE-K4BB	—Beater and Pastry Knife	YKI	1.70
FE-K5AB	—Beater and Pastry Knife	YCI	3.15
FE-JB	—Glass Bowl for Juice Extractor	EO	1.00
FE-PR	—Plastic Reamer	UL	.55
FE-JHA	—Juicer Holder and Shaft Assby.	YXA	1.90
FE-JS	—Juice Strainer	OA	.45
FE-K4WW	—Wire Loop Whip	OUE	3.80
FE-K5AWW	—Wire Loop Whip	OEK	4.20

ATTACHMENTS FOR SUNBEAM MIXMASTERS

No.	Attachments	K.C. - O.C. Net Each 1 or 2	3. up	
FE-FW6A	—Food Chopper less power unit for all models	IAY	ILU	$8.50
FE-PU10	—Power Unit for model No. 10	LXL	LYI	6.50
FE-PU6	—Power Unit for model No. 9 and earlier models	LXL	LYI	6.50
FE-CB10	—Butter Churn for model No. 10	IEL	IOJ	8.25
FE-SS9	—Slicer and Shredder for model 9 and earlier models	YKLO	CJL	15.25
FE-DM10	—Drink Mixer for Model 10	UIC	UXI	5.25
FE-DM9	—Drink Mixer for model 9 and earlier models	UIC	UXI	5.25
FE-SS10	—Slicer and Shredder for model 10	YKLO	CJL	15.25
FE-FC6A	—Food Chopper with power unit	YKOI	CIA	15.00
FE-CB9	—Butter Churn for model 9 and earlier models	IEL	IOJ	8.25

Beaters and Bowls for Model 9 Mixmasters

		K.C.-O.C. Net Each	
FE-P20782-1	Small Glass Bowl—1 qt.	AJ	$1.25
FE-P20775-2	—Large Glass Bowl—3 qt.	YUY	1.75
FE-15BS	—Juice Extractor Bowl	YLA	2.00
FE-C57BY	—Full-Mix Ejector Beater W/Button	JL	1.10
FE-C3BF1	—Full-Mix Ejector Beater W/O Button	EL	.95
FE-G83CA	—Full-Mix Ejector Beater Set	YUL	2.00

Beaters and Bowls for Model 10 Mixmaster

FE-20CJ	—Small Glass Mixing Bowl	AJ	1.25
FE-19CJ	—Large Glass Mixing Bowl	YUY	1.75
FE-15BS	—Juice Extractor Bowl	YLA	2.00
FE-C57CJ	—Bowl-fit Ejector Beater—with bowl-speed control button	JL	1.10
FE-C72CJ	—Bowl-fit Ejector Beater—without bowl-speedcontrol button	EJ	1.00
FE-G94CJ	—Bowl-fit Ejector Beater Set (C72CJ & C57CJ)	YLY	2.10

FOR MODELS 7, 8, 7B, 8B, MIXMASTERS

		K.C.-O.C. Net each	
FE-C3BF	—Full-Mix Ejector Beaters	EL	

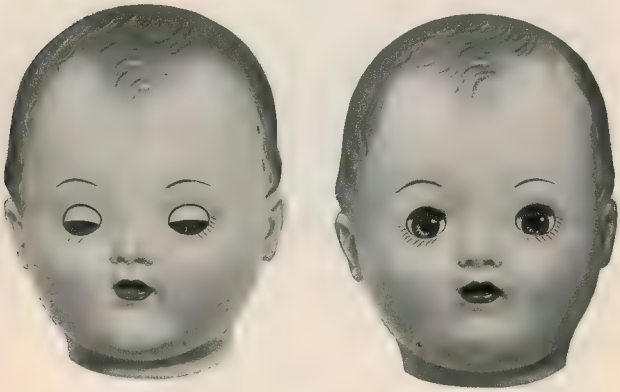
MARGON

for dolls
with soft
vinyl heads...

MARGON *Corporation, Bayonne, N. J*

Direct N. Y. Phone: WHitehall 3-2798

MOVING EYES



Margon has developed for the doll industry, and placed at its disposal, an entirely new method of molding individual eye sockets in vinyl heads—something never done before.

This development marks a new trend in the doll business and is in line with the many new and revolutionary innovations Margon has introduced during its 35 years' association with the doll industry.

In addition to moving eyes for all types of dolls, Margon makes realistic mama- and papa-voices, crying voices, squeeze mama-voices for latex dolls.

Margon is always ready to turn its entire resources to the development of any new idea that will help in producing better and finer dolls.

A Margon product in your doll is your guarantee of the best in dolls' eyes and voices.

THE BIG, COLORFUL, PROFITABLE LINE

"Live Action" PULL Toys by STRUCTO

Die-Cast Aluminum Cabs and Chassis . . . Stamped Steel Bodies

NO. 700 Transport Trailer

No. 702 Steel Cargo Trailer

Because Children Like Them, Adults Buy Them

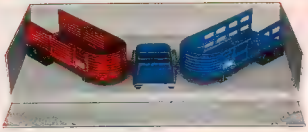
No. 402 Machinery Truck and Steam Shovel
Patented
(2 Complete Items . . . Sold as One Unit)

No. 105 Heavy-Duty Steam Shovel
Patented

No. 250 Aerial Fire Truck

They're "CHILD-CONDITIONED"

No. 706 Combination Cab with 2 Trailers (702 and 704 Trucks)



Three complete items sold as one toy. You'll find it a popular, profitable trio. This set includes one cab and a 702 trailer and 704 trailer. All three are packed in an attractive display carton that is easy to set up. Simply remove cover. Front of carton will drop down and form an attractive counter display. A proven, effective sales maker.

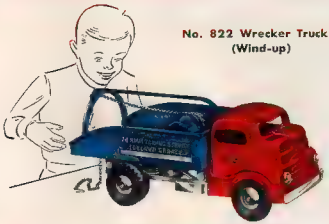
STRUCTO MFG. CO.

MAIN OFFICE AND FACTORY • FREEPORT, ILLINOIS
NEW YORK OFFICE—ROOM 538, 200 FIFTH AVE. BLDG.

...OF FINEST TOYS FOR AMERICAN BOYS

"Live Action" MECHANICAL Toys by STRUCTO

Built to Last a Child-Time . . . More Appeal Than Ever Before



No. 822 Wrecker Truck
(Wind-up)

No. 844 Hi-Lift Dump Truck
(Wind-up)

The Most Sensational Motor in the History of the Toy Business

Makes Two Toys in One

This sturdy clock spring motor, using a 10 ft. spring, is something entirely new in free-wheeling motors. It permits the toy to be played with both as a pull toy and a wind-up toy. This new "Fluid-Action" motor was designed in our own research department, by our own engineers, and is manufactured exclusively by STRUCTO. Performs approximate 60 foot runs at slow simulated truck speeds . . . on the straight-away or in adjustable circles.

ON STRUCTO WIND-UP TOYS

Protected by Patents

Two More Profit-Making STRUCTO Pull Toys

No. 704 Overland Freight Trailer

No. 500 Utility Truck
Patents Pending

AT THE FAIR: ROOMS 525 and 526, HOTEL NEW YORKER
ALSO NEW YORK OFFICE—ROOM 538, 200 FIFTH AVE. BLDG.

ROY ROGERS blazes the profit trail for these
NEW YANKIBOY EXCLUSIVES
BLACK BEAUTIES and PALOMINOS

*Cowboy Star of Republic Pictures

See these and the other great numbers in the new line of
YANKIBOY
BLACK BEAUTY AND PALOMINO
COWBOY and COWGIRL SUITS
—on display at our showroom
or
WRITE FOR BIG NEW CATALOG AND PRICE LIST

Guaranteed by Good Housekeeping

YANKIBOY PLAYCLOTHES
NATIONALLY ADVERTISED . . .
GUARANTEED BY GOOD HOUSEKEEPING

SACKMAN BROTHERS COMPANY
200 Fifth Avenue WORNOVA MFG. CO., INC. New York 10, N.Y.
YANKIBOY PLAYCLOTHES make the children happy

BIG HIT BASEBALL SUIT
No. 626 — Tops in the Value League — authentic to a "T". Shirt and pants of striped cotton flannel, trimmed in blue. Matching cap. Belt. Two-tone stockings. 2 sets of "team" letters. Sizes 4-14.
YANKIBOY
presents
TODAY'S STAR SELLERS
AT YESTERDAY'S LOW PRICES
Again—Yankiboy registers a grand-slammer with these time-tested eye-catching values! Coast-to-coast they're the unanimous choice to crack every record for extra sales, extra profits.
Stock these standout numbers now . . . display them prominently . . . promote them with FREE newspaper mats that tie you in with national advertising.
See the complete line of nationally-famous Yankiboy play clothes on display at our showrooms.
Guaranteed by Good Housekeeping
ORDER NOW
FOR PROMPT DELIVERY
BIG LEAGUE BASEBALL SUIT
No. 624 — A smash hit for fast sales. Cotton flannel shirt and pants trimmed in red. Belt. Matching cap. Two-tone stockings. 2 sets of "team" letters. Sizes 4-14.
SACKMAN BROTHERS COMPANY
WORNOVA MFG. CO., INC.
200 FIFTH AVENUE, NEW YORK 10, N. Y.
YANKIBOY PLAY CLOTHES MAKE THE CHILDREN HAPPY
BIG FIVE BASEBALL SUIT
No. 628 — This has the luxury look all the boys go for . . . and the sturdiness to take all the bruising wear that backyard diamonds dish out. Shirt and pants of heavy cotton flannel with two-tone braid piping. Matching cap. Genuine leather belt. Two-tone stockings. 2 sets of "team" letters. Sizes 4-16.

SOCKET WRENCH ATTACHMENTS

NONE BETTER CHROME ALLOY

½ INCH SQUARE DRIVE

Built for service The ½ inch square drive is interchangeable with all standard tools. Parts of attachments subject to wear and strain are made from S.A.E. analysis chrome alloy steel and have rich triple chromium finish.

FLEX HANDLES

Handle may be used as an extension, offset handle, nut spinner or with cross bar as a tee handle. Length gives desired leverage and the flexible head allows it to be used at many angles

No. AA-S53—Length 15 inches. ½ inch square drive. Net wt. each 1¾ lbs. ..... Factory list each, **$3.94**
K.C.-O.C. Net each, **OEU**
Ten in a package

FLEX HANDLE CROSS BAR

The combination of the cross bar makes any flex handle a high grade tee handle.

No. AA-S30—Size ⅜x8 in. Ship'g wt. each ¼ lb. ..... Factory list each, **$0.38**
K.C.-O.C. Net each, **OI**
Ten in a package

REVERSIBLE RATCHETS

Stronger and easier to handle and more efficient. Double tooth engagement of the ratchet gear with the pawl gives a greater strength and longer life. The action can be instantly reversed by a slight thumb pressure. All parts are made of selected S.A.E. alloy steel

No. AA-S41—Length 12 inches. ½ inch square drive. Net wt each 1¼ lbs ..... Factory list each **$5.80**
K C.-O.C. Net each, **UAJ**
Ten in a package

STANDARD RATCHET

Dependable and efficient. Drop forged handle will withstand severe use. Gear and pawls made of alloy steel, carefully heated treated

No. AA-S45—Length 12 ins. ½ inch square drive. Net wt. each 1¼ lbs. ..... Factory list each, **$3.94**
K.C.-O.C. Net each, **OEU**
Ten in a package.

ADAPTORS

Connecting links beween ratchet and socket.

No. AA-S35—Short adaptor. ½ inch square drive. Net wt. each 1 oz. ..... Factory list each, **$0.48**
K.C.-O.C. Net each, **UO**
Ten in a package.

SLIDING TEE HANDLE

Many purpose handle. Can also be used as an offset handle Socket may be attached directly to the head of the tee handle Any of the various combinations forms a sturdy individua wrench

No. AA-S70—½ inch square drive. Net wt. each 1 lb. ..... Factory list each, **$1.92**
K.C.-O.C. Net each, **YOA**
Ten in a package.

UNIVERSAL JOINT

For work at seemingly impossible angles. Will stand strain even though it is compact and slender in design.

No. AA-S60—½ inch square drive. Net wt. each 8 ozs. ..... Factory list each, **$2.58**
K.C.-O.C. Net each, **YJO**
Ten in a package.

SPEEDER

With full swing to give ample leverage and a knurled handle to give firm grip. Built to speed up nut turning work wherever speed and power is called for.

No. AA-S85—Length 19 ins. ½ inch square drive. Net wt. each 1½ lbs. ..... Factory list each, **$2.40**
K.C.-O.C. Net each, **YEK**
Ten in a package.

SOCKET EXTENSIONS

With male and female ends. The exact fit of these parts make a rigid individual tool when used in connection with ratchet or other handles. ½ inch square socket.

No.	Length Ins.	Net Wt. Each, Ozs.	Factory List Each	Net Each K.C.-O.C.
AA-S24	5	7	$1.26	AL
AA-S25	10	16	1.58	YKI

Ten in a package.

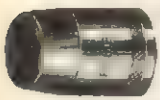
WRENCH SOCKETS
NONE BETTER

Made of alloy steel, thin wall, yet strong and tough. Keyless locking feature holds sockets firmly on handles yet allows them to be readily removed Throughly heat treated and hardened, will wear indefinitely. Triple chromium plated.

Thin Wall Straight Wall 12 Point Sockets. ½ inch square drive.

No.	Size Inches	Factory List Each	Net Each K.C. & O.C.
AA-T1214	7/16	$0.60	LK
AA-T1216	½	.60	LK
AA-T1218	9/16	.64	LU
AA-T1219	19/32	.70	LJ
AA-T1220	5/8	.70	LJ
AA-T1222	11/16	.74	LC
AA-T1224	¾	.82	IX
AA-T1225	25/32	.86	IJ
AA-T1226	13/16	.86	IJ
AA-T1228	7/8	.92	EY
AA-T1230	15/16	.96	EL
AA-T1231	31/32	1.04	EC
AA-T1232	1	1.04	EC
AA-T1234	1 1/16	1.06	JY
AA-T1236	1 1/8	1.18	JC
AA-T1240	1¼	1.36	CY

Average weight each 2 ounces. Ten in a Package.



A SPECIAL SOCKET FOR V-8 CONNECTING ROD

Nose is tapered down to fit restricted space. It is 5/16 inch—6 point broached, ½ inch standard drive, made from the best chrome alloy steel. Triple chromium plated

No. AA-FV618—Size 5/16 inch. ½ inch square drive. Net wt. each 3 ozs... Factory list each, **$0.86**
K.C.-O.C. each **I J**

Ten in a package

END WRENCH SETS
BRIDGEPORT

Regular type end wrench sets. Hardened openings, .15 degree angle; furnished with a spring clip to keep them together.

5-PIECE SET

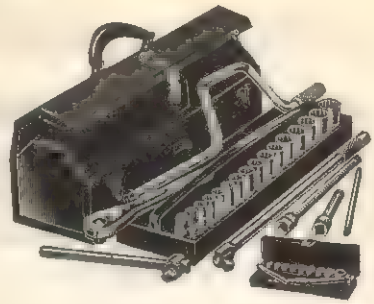
No. AA-15N Sizes 5/16 to ¾ ins. Ship'g wt. per set 1 lb.... Factory list per set, $1 20
K.C.-O.C. set **AK**

6-PIECE SET

AA-25N Sizes 5/16 to 7/8 ins Ship'g wt per set 1 1/8 lb Factory list per set, $1 60
K.C.-O.C. set **YK J**

WRENCH SET, None Better. 12-piece ¼" square drive set, in a metal box, 7"x2½"x1½". Includes reversible ratchet 6" flex handle, 3" cross bar. 6 point sockets-¼, 5/32, 3/16, 7/32 and 1/4 inch. 8 point sockets-5/16, 3/8 and 7/16 inch. One in a carton, ship. wt. 2 lbs.
No. AA-601 K.C.-O.C. Set **EOY $9.32**

WRENCH SETS
34-PIECE SET



Anyone who has learned the value of detachable socket wrenches in auto repairs, millwright or assembly work will appreciate the splendid collection contained in this 34 piece set. Sockets to cover a wide range of work, handles to make possible any number of combinations and No. 13263 Tool Chest, 6x19 in. by 6 in. high with a handy tote tray. The sockets are the thin wall straight wall type of "None Better" quality material and workmanship.

This set contains 22 pieces with ½ in square drive; sixteen 12 point sockets 7/16, ½, 9/16, 11/32, 5/8, 21/32, 11/16, ¾, 25/32, 13/16, 7/8, 15/16, 31/32, 1, 1 1/16 and 1 1/8 in. A Slide Tee Handle, 18 inch Flex handle with cross bar, Long Speeder, Reversible Ratchet, 5 in Socket Extension Also 13 pieces with ¼ in square drive, eight 6 point sockets ¼, 5/32, 3/16, 7/32 and 1/4 in Three 8 point sockets ¼, 5/16 and 3/8 in. A 6 inch Flex Handle with cross bar

No. AA-6034T—Set of 34 pieces in tote-tray box as described above. Ship. wt. 22 lbs. K.C.-O.C. set **OJA I $41.78**

23-Piece ½-inch Drive Set, contained in a metal chest, 19x7½x2 in. with catches with grip handle. Includes reversible ratchet, 18" flex handle, 8" cross bar, 19" speeder, slide T handle 5" socket extension, 10" socket extension, and 16 12-point sockets—3/8, ½, 9/16, 19/32, 5/8, 21/32, 11/16, ¾, 25/32, 13/16, 7/8, 15/16, 31/32, 1 1/16 and 1, 1 1/8 inch. Ship wt. 17 lbs.

K.C.-O.C. set
No. AA-6023..... **OXA I $34.26**

9-PIECE SET

Car and home owner-set 8 alloy sockets with ½ inch drive and L handle, packed in a metal container finished in black Damaskene The L-handle locks the sockets securely in the box. 12 point sockets include one of each ½, 9/16, 5/8, 11/16, ¾, 13/16, 7/8 and 1 inch.

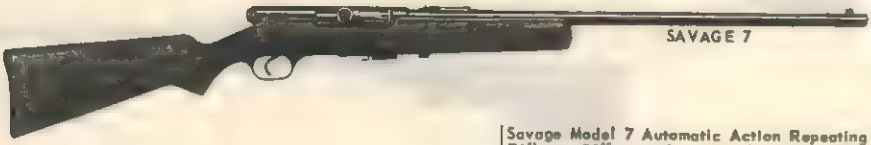
No. AA-6009—Nine piece set as described above. Ship wt 2¾ lbs..... K.C.-O.C. set **IXU $8.30**

MIDGET

One of these Midget sets should be included in every mechanics outfit. There are six 6 point sockets ¼, 5/32, 11/64, 3/16 and 7/32 in Three 8 point sockets ¼, 5/16 and 3/8 in with a 6 inch Flex handle and 3 inch cross bar All alloy steel, packed in a hinged cover black damaskene finished steel box.

No. AA-600—Set of 11 pieces as described above. Ship. wt 1 lb..... K.C.-O.C. set **UIJ $5.36**

SAVAGE RIFLES



Savage Model 6 Automatic Repeater. .22 Caliber . . . Rim Fire . . . Takedown . . . Tubular Magazine. 24-inch round tapered barrel with crowned muzzle; chambered for .22 caliber long rifle, regular or high speed cartridges with lubricated bullets. Magazine holds seventeen .22 long or twenty-one .22 short. Cross bolt locks for use as a single shot or repeater. Action easily disassembled without tools for cleaning. Convenient independent safety. Hammer release mechanism allows the firing of one shot only with each pull of the trigger. One-piece walnut stock and fore-end with full checkered pistol grip; composition butt plate. Gold bead front and sporting rear sight, with elevation adjustment. Weight 6 lbs

K.C.-O.C. Net each

No. GS-M6 UKXK $37.50

Savage Model 7 Automatic Action Repeating Rifle----24" round, tapered barrel, with crowned muzzle, Chambered for .22 Long Rifle, regular or high speed cartridges with lubricated bullets. Also can be used as a hand operated repeater or single shot using .22 Long Rifle, .22 Long or .22 Short Cartridges. Special steel used in high shock parts. Scientifically heat-treated. Cross bolt locks for use as single shot or repeater. Action easily disassembled without tools for cleaning. Convenient independent safety. Hammer release mechanism allows the firing of one shot only with each pull of the trigger. One piece full pistol grip stock and large forestock of selected walnut, oil finish. Hard rubber butt plate. Equipped with a 5 cartridge capacity magazine. Metal Bead Front and Open Middle Sight with Elevator. Receiver drilled and tapped for Savage No. 150 Micro Peep Sight. Wt. 6 lbs.

K.C.-O.C. Net each

No. GS-7 . . . . . OJOI $34.00

Savage Model 340 & 342 Hi-Power Rifle---- Bolt Action—Carbine Type. 22-inch, round, tapered barrel. Short throw bolt action, vented for free gas escape with protective shield. Bolt cocks on opening stroke. Detachable clip magazine. Independent, thumb operated safety, locks sear and bolt—conveniently located at right rear end of receiver. Ramp front, and disc elevator middle sight. Walnut stock and fore-end of one-piece, with semi-pistol grip and corrugated butt plate. Overall length 40 in. Wt. 6¾ lbs.

No. GS-340—.30-30, 3-Shot.
No. GS-342—.22 Hornet, 4-Shot.
K.C.-O.C. Net each UJUK $49.75

Savage Hi-Power Repeater.
. . . Solid Frame . . . Standard Model . . . Lever Action. 24 inch tapered round barrel with raised ramp front sight. Hammerless, solid breech, lever action. Hammer indicator automatically shows cocked or fired position of hammer. Rotary box type magazine with numeral indicator. Six shots, magazine capacity five cartridges with one in chamber. Stock and fore-end of select walnut, rubbed oil finish and checkered. Full capped pistol grip. Length of stock 13 in., drop at heel 2⅜ in. Corrugated butt plate of shotgun design. White metal bead front sight and adjustable Semi-Buckhorn sporting rear sight. Receiver tang drilled for all standard aperture sights. Weight 7½ lbs.

No. GS-99EG300 —.300 Savage
No. GS-99EG250/300 —250/300 Savage
K.C.-O.C. Net each AUIX $111.50

SAVAGE RIFLES

SAVAGE 3

SAVAGE 4

Savage Model 3 Single Shot Rifle. .22 Caliber . . . Rim Fire . . . Bolt Action . . . Takedown. A Savage rifle of outstanding value and quality, especially designed for use with high speed cartridges. .22 caliber short, long or long rifle. 24-inch tapered barrel with crowned muzzle. Plated bolt and trigger. Action cocks on opening of bolt. Recessed bolt face—bolt head encased—positive extraction and ejection. Convenient independent safety. Full pistol grip walnut stock and fore-end in one piece with black composition butt plate. Overall length 43 in., taken down 28¼ in. Gold bead front sight and adjustable flat top rear sight. Weight 5 lbs.

K.C.-O.C. Net each

No. GS-3 . . . . . YUKX $16.25

Savage Model 4 Repeating Rifle. Bolt Action . . . .22 Caliber . . . Rim Fire . . . Clip Magazine. 24-inch round tapered barrel with crowned muzzle for .22 caliber short, long or long rifle cartridges, regular or high speed 5-shot detachable clip magazine. Plated bolt and trigger. Action cocks on opening stroke of bolt. Quick ignition convenient independent safety recessed bolt face—bolt head encased—positive extraction and ejection. One piece walnut stock and fore-end, checkered full pistol grip; black composition butt plate. Gold bead front and sporting rear sight with elevation adjustment. Weight 5 lbs.

K.C.-O.C. Net each

No. GS-4 . . . . . OYUK $26.65

SAVAGE 5

SAVAGE 29

Savage Model 5 Repeating Rifle . . . .22 Caliber Rim Fire . . . Tubular Magazine . . . Bolt Action . . . Takedown. Barrel is round and tapered, 24 inch, with crowned muzzle, chambered for 22 long rifle, .22 long or .22 short, regular or high speed cartridges. Tubular magazine holds fifteen .22 long rifle, seventeen .22 long or twenty-one .22 shorts. Action cocks on opening stroke of bolt; quick ignition; convenient independent safety; recessed bolt face; plated bolt and trigger; positive extraction and ejection. One-piece full pistol grip stock and broad forestock of selected walnut, checkered on grip. Black composition butt plate. Gold bead front sight and sporting rear sight with elevation adjustment. Weight 5½ lbs.

K.C.-O.C. Net each

No. GS-5 . . . . . OLIX $30.75

Savage Model 29 Repeating Rifle—Extra long forearm.—22 Caliber—Slide action. The extra length forearm permits the shooter to extend his left arm into a relaxed and easy shooting position. 12-inch round barrel. Shoots without adjustment all 22 caliber cartridges, either regular or high speed. Tubular magazine holds 20 short, 17 long or 15 long rifle cartridges. Takedown receiver. Selected walnut stock, full pistol grip, 1-3/8 in. drop at comb, 2¾ in. drop at heel, 13½ in. long. Metal bead front sight with elevator. Weight 5¾ lbs.

K.C.-O.C. Net each

No. GS-29. . . . . UJKX $49.25

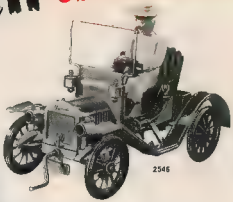
action miniature "autos"

Delightful, fully detailed, scale-model miniatures, with REVELL Controlit Trigger for *action!* With trigger mechanism removed, each auto becomes collectors' shelf ornament.

2532 1911 MODEL T FORD . 79c
2533 1908 PACKARD ROAD . 79c
2534 1909 STANLEY STEAMER 79c
2535 1903 CADILLAC 79c
2536 FOURSOME (above) . $3.19

They're Revell utionary

COMMENDED BY THE DIRECTORS' DIVISION OF PARENTS' MAGAZINE



2546

windup maxwell "auto"

The charm of America's most comical car plus the appeal of a collector's model *plus* new wind-up action. A double seller for Son and Dad. **$2.49.**

action pull toys

Nationally famous Revell Pull Toys with Controlit Cable. Demonstration Display Stand available.

2514 CHAMP .. $1.39
2515 CHU CHU $1.39
2524 MAXWELL PULL TOY $1.98
2522 BUCKAROO BILL $1.98
2526 QUACKY WACKY $1.69

Surprise!

Hottest 984 item of year will also be shown at our display.

Revell Toys, Inc.

212 North Western Avenue • Los Angeles 4, Calif.

new pop-priced leader

Wonderful promotion set (C-30) containing Elephant, 2 new Wild Animals, Ringmaster and Accessories and priced to retail at just **$2.98.**

new deluxe set

To meet demand from better stores for a deluxe "super set" (C-90). Contains all Circus Acts incl. new Wild Animals and Indian Chief. Retail **$9.95.**

new circus wagons

Now the REVELL CIRCUS offers authentic, glittering Circus Wagons, made of tough high-impact Styrene plastic, complete with Horses. *Also available without horses at the following prices.*

W-31 Freight Wagon inc. acces. 1.98
W-32 Cage Wagon 1.98
W-33 Band Wagon 2.49

room 723 hotel new yorker

Action is the word for the REVELL CIRCUS—voted "most playable toy" Featured by LOOK, advertised in Good Housekeeping and Parents. Now enlarged for new sales heights in 1951!

Revell for action..

new wild animals

La-deeze and Gentlemen! REVELL CIRCUS proudly presents a stupendous, spine-tingling Wild Animal Act, featuring Lion, Lioness, Tiger, Leopard, and Black Panther. C-42 priced to sell in volume at just **$4.98.**

Latch on to BUCK'N BRONC

FOR SALES AND RESALES!

America's young cow-pokes AND THEIR PARENTS order and reorder the Buck'n Bronc line. The children want it because it's complete and authentic . . . the parents, because there's a price range to meet every budget.

The craftsmanship and materials used are all of the highest quality possible . . . and the designing is real western . . . created in the west.

NOW, is the time . . . stores everywhere are latching on the Buck'n Bronc to keep their sales soaring.

GEO. SCHMIDT MFG.

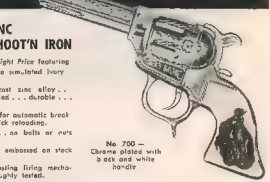
716 EAST 14TH STREET LOS ANGELES, CALIFORNIA

100 Lbs. or over Freight Prepaid

BUCK'N BRONC SHOOT'N IRON

Deluxe gun at the *Right Price* featuring

- Black and white simulated ivory handles
- Made of die-cast zinc alloy . . . accurately tooled . . . durable . . . rustproof
- Spring release for automatic breaking . . . for quick reloading.
- Extra sturdy . . . no bolts or nuts to work loose.
- Western design embossed on stock and barrel
- Positive long-lasting firing mechanism . . . thoroughly tested.



No. 700 — Chrome plated with black and white handle

No. 701 — Same as No. 700 except NON-FIRING.

No. 702 — Nickel plated finish with black and white handle.

No. 703 — Same as No. 702 except NON-FIRING

No. 704 — 24-karat Gold plated with black handle.

No. 705 — Same as No. 704 except NON-FIRING.

No. 902—THE BLACK PACER —Black genuine leather, felt lined. Attractively shaped to snugly fit the young cowpoke. Decorated with silver finish spots, bronze steerheads. Bronze steerhead on nickel finished concho. Complete with sturdy Buck'n Bronc guns as described above. 9035 Single Holster.

No. 400 — WHITE TRICK ROPE—8 feet long. Wooden handle with special swivel joint to make twirling easy for even the smallest cowboy

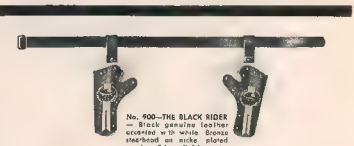
No. 800 — Two-tone silver and bronze finish with strong clasp. Authentic replica very one of the real thing individually carded

No. 904 — THE BLACK BEAUTY — Genuine black leather, white felt lined. Attractively decorated with jewels and silver finish spots. Bronze steerhead on nicke plated concho. Silver finished die-cast buckle. Complete with guns 9055 Single Holster

No. 300 — Chrome plated with bronze trim and bronze steerhead on chrome plated concho. Embossed genuine leather straps

No. 301S Nickel plated with bronze steerhead on nickel plated concho Genuine leather straps

No. 302G 24 karat Gold plate with satin silver finish trim with satin silver finished steerhead on 24-karat Gold plated concho Embossed genuine leather strap

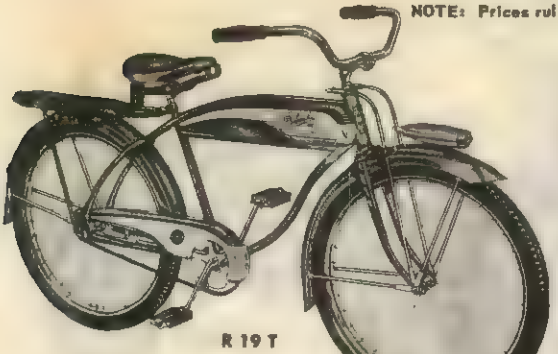


No. 900—THE BLACK RIDER — Black genuine leather accented with white Bronze steerhead on nicke plated concho. Silver finish spots 9015 Single Holster

WESTFIELD–COLUMBIA BUILT BICYCLES

3 – STAR LEADER MODELS

NOTE: Prices ruling at date of shipment



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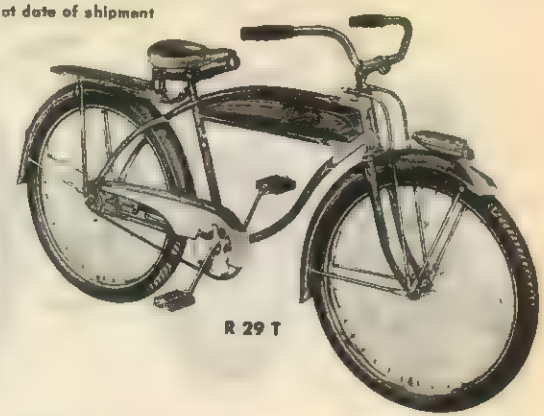

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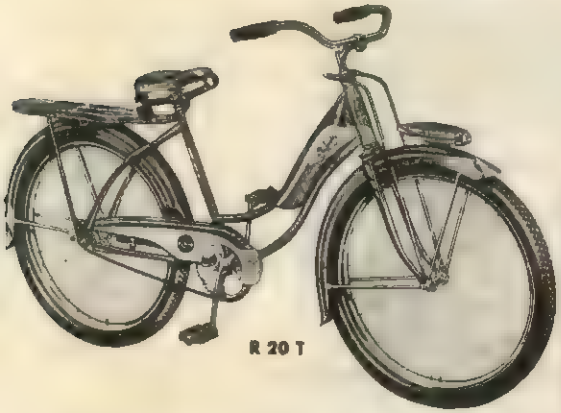

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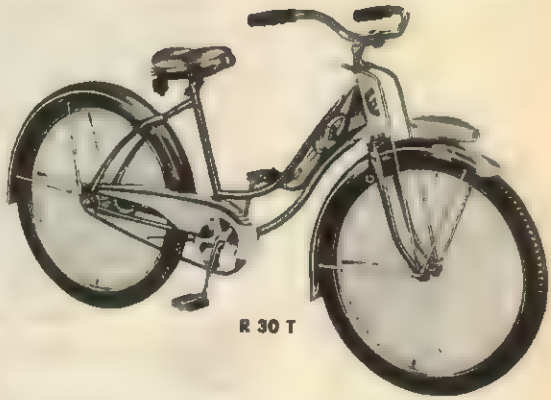


R 30 T

Real deluxe style and zip in these flashing Deluxe companion models at a lower price than the Five Star models. New 18" Therm-O-Matic Frame, New Air-Flow Tank with Built-In Horn, New Non-Slip Handlebar Grips, New Deluxe Full Length Air-Flow Chain Guard, New Deeper, Wider Fenders, New Lock Top Torpedo Headlight, New Tan Top Saddle, New Deluxe Luggage Carrier, New Tubular Chrome Front Fork Truss Rods with Acorn tips, Built-In Kick Stand.

Colors: *Berkshire Blue, Mohawk Maroon, Cavalier Red, Westfield Blue, or Black. Trimmed in Ivory.*

Model R19 Boy's and R20 Girl's same as above without Tank, Horn, Lamp and Carrier.

No.	Ship. wt. lbs.	K.C.-O.C.	Net each
GS-R19 - Boy's Unequipped	56	UCEX	$49.65
GS-R19T- Boy's Fully equipped	60	LUAI	56.70
GS-R20 - Girl's Unequipped	56	UCEK	49.65
GS-R20T- Girl's Fully equipped	60	LUOU	55.45

Even less expensive than the Three Star Models. These companion bikes are still plenty stylish and packed full of Columbia-Built values! New 18" Frame, Super-Sonic Trim Tank with Built-In Horn, New Chrome Plated Truss Rods, New Full Length Chain Guard, New Tan Top Saddle, New Columbia Non-Slip Handlebar Grips, Side Kick Stand, Luggage Carrier (R29T Only) and Columbia's basic quality construction

Colors: *Cavalier Red, Westfield Blue, or Black. Trimmed in Ivory.* Model R29 Standard Motobike — Model R30 Standard Women's — Same as above without Truss Rods. Tank, Horn, Lamp and Carrier.

No.	Ship. wt. lbs.	K.C.-O.C.	Net each
GS-R29 - Boy's Unequipped	55	UJEL	$48.00
GS-R29T- Boy's Fully equipped	60	LOKI	54.35
GS-R30 - Girl's Unequipped	55	UJEL	48.00
GS-R30T- Girl's Fully equipped	58	LYXI	53.55

PROMOTION MODELS

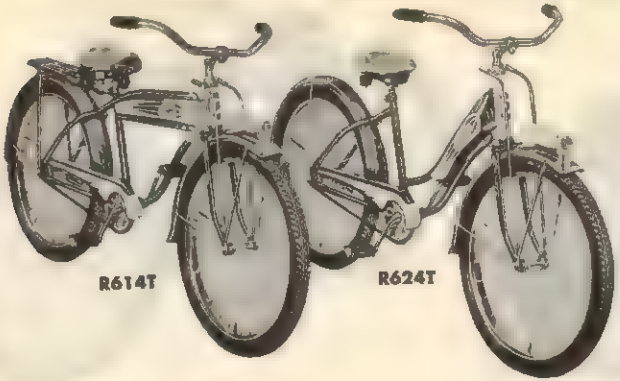
	Ship. wt. lbs.	K.C.-O.C.	Net each
No. GS-R59–Boy's Unequipped	53	UICU	
GS-R50–Girl's Unequipped	52	UICU	

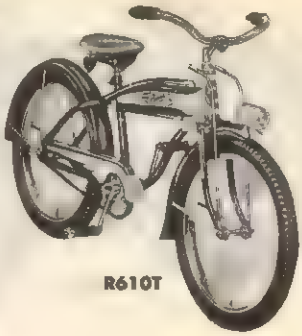
NOTE: All above Bicycles are 26" with 18" frame and 26" balloon Tires. Packed one in a carton.

WESTFIELD–COLUMBIA BUILT BICYCLES

JUVENILES

NOTE: Prices ruling at date of shipment





24" Wheel, 15" Frame. Top quality fully equipped bikes for between-age boys and girls, with the flash and style of full sized bikes! 24" Balloon Inner Tube Tires, Chromium Rims, Full Length Chain Guard, Tank with Built-In Electric Horn, Electric Lamp, Carrier (R614T only), New Chrome Plated Truss Rods with Acorn Tips, Kick Stand and Tan Top Persons Saddle.

Colors: *Cavalier Red, Mohawk Maroon, Westfield Blue or Berkshire Blue.*

Models R614 Boy's — Model R624 Girl's — Same as above without Tank, Horn, Lamp, Carrier and Truss Rods.

No.	Ship.wt. lbs.	K.C.-O.C.	Net each
GS-R614- Boy's Unequipped	48	UJEC	$48.25
GS-R614T-Boy's Fully equipped	52	LYAY	53.30
GS-R624- Girl's Unequipped	47	UJEC	48.25
GS-R624T-Girl's Fully equipped	52	LKCU	52.25
GS-R610- Boy's Unequipped	40	UIYL	46.00
GS-R620–Girl's Unequipped	39	UIYL	46.00

R610 is same as R610T shown except R610 is unequipped

(R610T Not Available)

GS-R614)
GS-R614T)
GS-R624)
GS-R624T) All are 24" Bicycles 15" frame, using 24" Balloon Tires.

13" Frame, 20" Wheels. Second size in Columbia-Built juvenile bikes with real Inner Tube Balloon Pneumatic Tires, Chrome Rims, Tank (R610T only), Electric Horn and Lamp, Full Length Chain Guard, New Chrome Plated Truss Rods with Acorn Tips, Kick Stand and Tan Top Travel Saddle.

Colors: *Cavalier Red, Mohawk Maroon, Westfield Blue or Berkshire Blue.*

Model R610 Boy's — Model R620 Girl's — Same as above without Tank, Horn, Lamp and Truss Rods.

GS-R610)
GS-R620) These two numbers are 20" Bicycles 13" frame, using 20" Balloon Tires.

JUVENILE MODEL WITH STABILZER (SIDE WHEELS)

	Ship. wt.lbs.	K.C.-O.C.	Net each
No. GS-606B–Boy's	42	UOEC	$41.85
GS-616B–Girl's	43	UOEC	41.85

These two numbers are 16" Bicycles, 13" frame, using 16" Semi-pneumatic Tires.

	Ship. wt.lbs.	K.C.-O.C.	Net each
GS-610B–Boy's	46	UAJK	$49.25
GS-620B–Girl's	46	UAJK	49.25

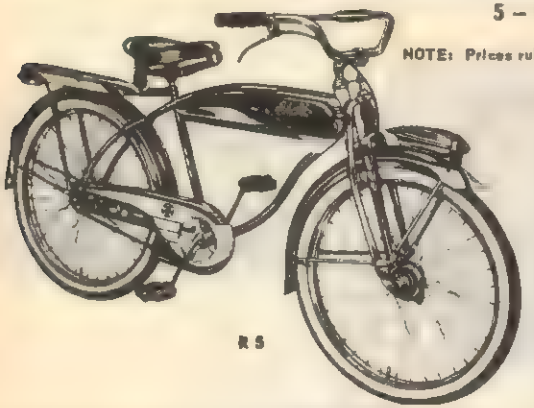
These two numbers are 20" Bicycles, 13" frame, using 20" Balloon Tires.

All above Packed one in a carton.

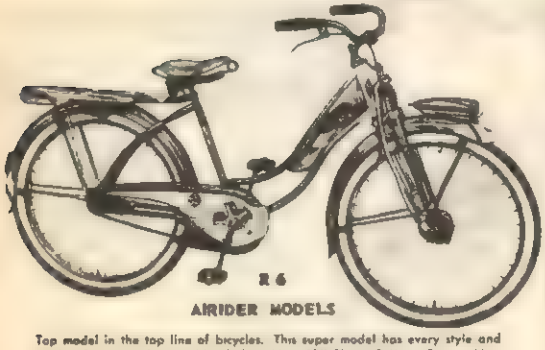
WESTFIELD-COLUMBIA BUILT BICYCLES

5 – STAR

NOTE: Prices ruling at date of shipment



R 5



R 6

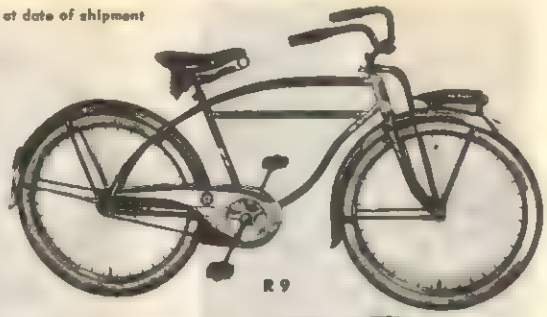
AIRIDER MODELS

Top model in the top line of bicycles. This super model has every style and quality feature a boy could ask for. New 18" Therm-O-Matic Frame, New Chrome and Enamel Air-Flow Tank, Electric Horn, Protecto-Lock with one year Theft Protection Guarantee, Floating Action Spring Fork with chrome and enameled members, New All Chrome Rocket Streamliner Headlight, New Deluxe Top Grain Leather Saddle with chrome springs and crash rail, Columbia Built In Kick Stand. Front Wheel Expander Brake with hand control (in addition to Coaster Brake), New Deluxe Carrier with Triple Tail-Stoplight-Reflector combination and chrome Truss Rods with Acorn Tips, New Full-Length Full-Protection Chain Guard, New Extra Wide and Deep Fenders, Curved Brace Handlebars, New Columbia Non-Slip Finger-Fit Grips, Top Quality White Side Wall Tires, New Twin Lens Stimsonite Reflector – plus all the regular Columbia-Built quality features.

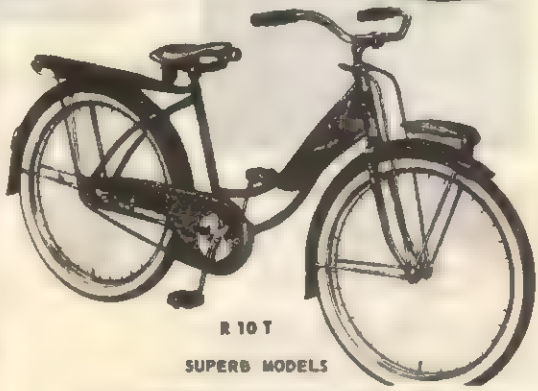
Colors: *Opalescent Catalina Blue, Opalescent Riviera Green, Berkshire Blue, Mohawk Maroon, Cavalier Red, Westfield Blue, or Black. Decorated in Ivory, trimmed in third color.*

Model R6 Super Equipped Five Star Women's has similar specifications with girl's frame, saddle and handlebars. No brace on handlebars.

No.	Ship. wt.lbs.	K.C.-O.C.	Net each
GS-R5 - Boy's	67	EYAJ	$81.00
GS-R5X- Boy's without front wheel brake	67	IJIK	75.55
No.			
GS-R6 - Girl's	67	EYUK	80.35
GS-R6X- Girl's without front wheel brake	64	IECU	74.90



R 9



R 10 T

SUPERB MODELS

The new Mid-Century Five Star Superb Motobike Equipped and Women's Equipped models hit new peaks of value. New 18 Therm-O-Matic Frame. New Air Flow Tank, Electric Horn, New Rocket Streamliner Headlight, New Deluxe Top Grain Leather Saddle with chrome springs and crash rail. Columbia-Built-In Kick Stand, New Deluxe Carrier with Triple Tail-Stoplight-Reflector combination and chrome Truss Rods with Acorn tips. New Full-Length Full Protection Chain Guard, Extra Wide and Deep Fenders, New Columbia Non Slip Finger-Fit Grips. White Side Wall Tires, New Twin Lens Stimsonite Reflector — plus all the regular Columbia-Built quality features.

Outstanding Deluxe Models minus certain equipment at a lower price than the R9T and R10T. Same as these models without Tank, Horn and Carrier.

No.	Ship. wt.lbs.	K.C.-O.C.	Net each
GS-R9 - Boy's Unequipped	52	LUIK	$56.40
GS-R9T- Boy's Fully Equipped	63	LCUJ	62.90
GS-R9TLS—Girl's Fully Equipped W/Lock & Spring Fork	65	ILCI	70.65
No.			
GS-R10 - Girl's Unequipped	57	LUIK	56.40
GS-R10T- Girl's Fully equipped	60	LCKX	62.35

NOTE: All above Bicycles are 26" with 18" frame and 26" balloon Tires. Packed one in a carton.

Electric trains come complete with safe, U.L. approved transformer. Operates train forward or reverse. Has low, medium and high control. 50-watt AC only.

Realistic Electric Trains . . . Remote Controlled

1 ELECTRIC DIESEL FREIGHT
- Scale model twin-unit locomotive
- U.L. approved 50-W transformer
- Bright lithographed steel cars

Watch it come swinging 'round the bend! Has features of high-priced trains. Engine has oilless bronze bearings, die cast wheels, bright headlight. Transformer operates train forward or reverse at variable speeds. Cars: high-side gondola, box car and caboose. 12 sections of track: 4 straight, 8 curved . . . circumference 120-in. Train overall-43¼-in. 110-120 V., 60 c., AC.
A35 J 5208. Mailable (11 lbs.). **12.25**

2 ELECTRIC DIESEL UNCOUPLER
- Latest twin diesel design
- Each car has authentic detailing
- Forward or reverse at all speeds

Remote control engine runs on oilless bronze bearings. Each car equipped with automatic uncoupling and coupling device. All steel cars with die-cast wheels. Box car with sliding doors, high-side gondola and caboose; each 8 in. long. 8 curved, 5 straight plus 1 straight section with uncoupling rack . . . make 177-in. oval track. 50-watt transformer; 110-120 volts, 60 cycles, AC only.
A35 J 5209. Mailable. (16 lbs.). . . **23.95**

3 ELECTRIC ASTRAL-DOME PASSENGER
- New die-cast 4-6-2 wheel drive locomotive
- Tender and 3 lighted passenger cars
- U.L. approved 50-watt transformer

All-a-board for a thrilling trip! Each car has automatic uncoupling unit plus uncoupling ramp. Has passenger, astral dome and observation car . . . each lighted and lined with figures of passengers in windows. 177-in. oval track has 8 curved, 7 straight sections. 110-120 V., 60 cycles, AC only. Mailable.
A35 J 5210. Train 50½-in. (16 lbs.). **23.89**

4 ELECTRIC LIGHT TUNNEL. Strong metal 11x6x6¼-in. tunnel with stop and go block signal that actually lights up! With bulbs and track clip.
35 J 5226 (1 lb. 13 oz.) **1.89**

5 DOUBLE BLOCK SIGNAL. Red signal stops train, turns green and lets train proceed. Switch at rear operates signal. With bulbs, wires and track clip.
35 J 5227. (1 lb. 1 oz.) **1.87**

6 TWIN LIGHT FLASHER. Signal flashes automatically from side to side until train passes. Complete with bulbs and track connector. Steel construction. 8-in. high.
35 J 5243. Shipping weight 11 oz. **1.87**

7 ELECTRIC BELL SIGNAL. Rings as train approaches, keeps ringing until train passes. With wiring. Lithographed steel. 7½-in. high.
35 J 5245. Shpg. wt. 10 oz. . . . **1.87**

8 CROSSING GATE. Lowers until train passes, then rises automatically. Black and white design, jewel at end of 9 in. arm. With wires, track clip.
35 J 5247. 7½-in high. (11 oz.). . . **1.87**

9 33-PC. TRAIN ACCESSORY SET. Adds fun to railroading. Realistic background scenery . . . mountains, tall trees, buildings, lakes and tunnels. Heavy fiberboard . . . each section 20x10½-in. Separate pieces, trestle, billboards, station, signal tower, 2 no-parking signs, 2 delivery trucks, 20 pkgs.
35 J 5250. (3 lbs. 9 oz.) Complete **2.39**

MAKE UP ONE BIG ORDER—PAY ON CONVENIENT MONTHLY TERMS

8 Plastic Signal Set 4 Pcs. for 1.39

Clear The Tracks For Famous Marx Trains

1 WIND-UP FREIGHT

3.29

- Has flying sparks, bell
- 4 lithographed steel cars plus locomotive
- Strong spring motor

Just watch it whizzin' along shootin' harmless sparks! Listen to the bell clangin'! Sets up easily and runs smoothly. Long-running clock-spring motor with brake key. Sturdy mechanical locomotive, tender, gondola, coal car and caboose realistically marked. Train is 35½ inches long. 8 curved, 2 straight tracks. Oval track 27x36 inches; circumference 102 inches.
35 J 5261. (3 lbs. 8 oz.) . . . 3.29

2 CROSS-OVER FREIGHT

4.47

- Shoots harmless sparks
- Powerful spring motor
- Brake and built-in governor speed-control

Built like real steam-type locomotives. Tiny sparks shoot from the stack as it zips around track. Long-running clock-spring motor; built-in speed governor and brake. Lithographed steel locomotive, tender, cattle, car, tank car, caboose; 5-unit train measures 37 in. long. Figure 8 track: 12 curved, 4 straight sections, one crossover. Overall circumference 178-in. Includes key, instructions.
35 J 5263. (4 lbs. 11 oz.) . 4.47

3 ELECTRIC FREIGHT

9.69

- Piston-rod action engine
- 4-scale-model steel cars
- U.L. approved, 50-watt remote control transformer

Start or stop . . . forward or reverse at variable speeds. Just like being an engineer at the controls of a real freight train! Locomotive is equipped with oil-less bronze bearings, headlight and piston-rod, die cast wheels. 4 cars: tender, gondola, tank car and caboose of brightly lithographed steel. Transformer, 110-120 volts, 60 cycles, AC only. Train overall 34½-in. Circumference of oval track 102-in.
A35 J 5221. (9 lbs.) 9.69

4 ELECTRIC FREIGHT

11.98

- Remote control 50-W transformer for forward, reverse
- Four-drive wheel locomotive
- Built-in headlight

Open the throttle wide and watch it take full speed turns! Built to withstand rugged treatment. Churning four-drive wheel locomotive really grips the rails . . . tops in electric train fun—and at such a low price! Tender, high side gondola, box car and caboose of lithographed steel. 12 sections of oval track 120-in. circumference. Includes U.L. approved 50-watt transformer. 110-120 volts, 60 cycles, AC. Instructions.
A35 J 5223. (10 lbs.) 11.98

5 TUNNEL. Lithographed steel landscape. In 2 parts for easy storage. Overall 10½x28x7 in. high.
35 J 5236. (1 lb. 8 oz.) .89¢

6 FOOT BRIDGE. Heavy gauge steel. Inclining stairways on both sides. 13½x15x7½-in. high.
35 J 5238 (1 lb. 5 oz.) . . .89¢

7 WATER TOWER All plastic construction. Adjustable spout. Realistically designed structure, 8¼ in. high.
35 J 5246. (7 oz.) . . . . . .89¢

8 4 PC. SIGNAL SET. Dress up the right-of-way! Lamp post, semaphore, operating crossing gate, crossing signal. All plastic.
35 J 5220. (12 oz.) 1.39

NEW "FERROFLEX"—Strength of Iron . . . Fexibility of Rubber!

Rugged New Autos . . . Almost Indestructible!

"FERROFLEX" . . . MIRACLE TOY MATERIAL! A new rubber-based plastic that's tough and flexible . . . a child can jump on it and not dent it. It's lightweight, only half the weight of steel. "Ferroflex" won't chip, fade or rust; bright, lustrous colors are impregnated right in. Intense heat or cold doesn't affect it. Almost indestructible!

WE "TORTURE TESTED" IT! We kicked it . . . pounded it with a hammer . . . dropped it . . . stood on it . . . yet we didn't even dent the body! "Ferroflex" is truly amazing! These toys are built to last and last . . . the answer to a parent's prayer. In spite of these "miracle" qualities, "Ferroflex" autos are priced surprisingly low!

THE LAST WORD IN PEDAL AUTOS! All have rugged steel frameworks, bodies are of new "Ferroflex"! Strong double-disc 7½-in. wheels with massive hub caps and plain bushings. Tires are ⅜-inch solid rubber. Connection between rear axle and push rode is fitted with ball bearings . . . for smoother riding, easier pedaling.

ALL AUTOS SHIPPED FREIGHT OR EXPRESS FROM CHICAGO

[1] HOOK & LADDER TRUCK. Has clanging bell, removable ladders. Hand rails for extra passenger. 42x16x21½ in. high. Bright Red body, wheels; White trimming. Silver-color bumper, grill, lights. B35 J 3088 (33 lbs.)... **27.95**

[2] POLICE PATROL CAR. Equipped with loud-clanging bell. 38½x16x20 in. high. Bright Blue body and wheels. White trim. Silver-color bumper, grill and lights. B35 J 3089 (28 lbs.)... **27.95**

[3] FIRE CHIEF AUTO. Large resounding bell mounted on front. Measures 38½x16x21¼ in. high. Has bright Red body and wheels with White trimming. Silver-color grill, bumper and lights. B35 J 3090. (30 lbs.) **27.95**

[4] SPEED KING AUTO. Streamlined! Auto-type horn mounted on hood. 38½x16x20 in. high. Gray body and wheels, bright Red trim. White grill, bumper and lights. B35 J 3091. (29 lbs.). **27.95**

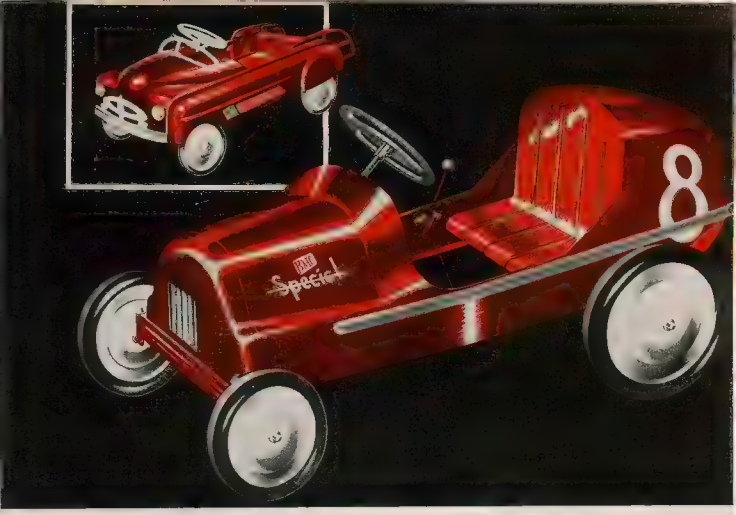
Bouncing Horse

- Has exciting 2-way action
- Molded of strong tenite plastic
- Looks just like a real horse

9.95

He'll ride the range for hours on this prancing pony. It has a 2-way action he'll love. With spring in place pony trots forward as child bounces up and down . . . or replace spring with steel rod and pony rolls along. Looks just like a real horse with its prancing legs, moulded mane and tail. Head and body are beautifully molded of sturdy tenite plastic . . . legs are of solid wood. Braces and wide 4½-inch wheels also of solid wood. Handle grip set into horses head. Color: White body and tail, Black mane, ears and saddle. Size: 25½x9-in.; saddle about 15-in. from the ground. Mailed from Chgo.

A35 J 3200 Shipping weight 16 lbs. **9.95**



B.M.C. proudly presents the RACER and

THE NEW CHAMPIONS OF THE POPULAR-PRICED WHEEL GOODS FIELD

Meet five stars of the new B M C line . . . five of the eight new models of dynamic design destined to capture the heart and imagination of every young prospect at first sight!

BMC

The "Mark" in wheel goods

AUTHENTIC DETAIL CREATES REALISM

Like all B M C models, the racing car, the sportster, hook-and-ladder, dump truck and station wagon are smooth-riding . . . easy to operate, and feature streamlined styling right down

B M C MANUFACTURING CORPORATION

SPORTSTER SERIES!

o the smallest detail! For example, authentic racing car design
nakes. B M C's "Special 8" faster than anything else in the
heel goods field!

COMPLETE LINE . . . LONGER AGE RANGE
MEAN RAPID SALES TURNOVER FOR YOU!

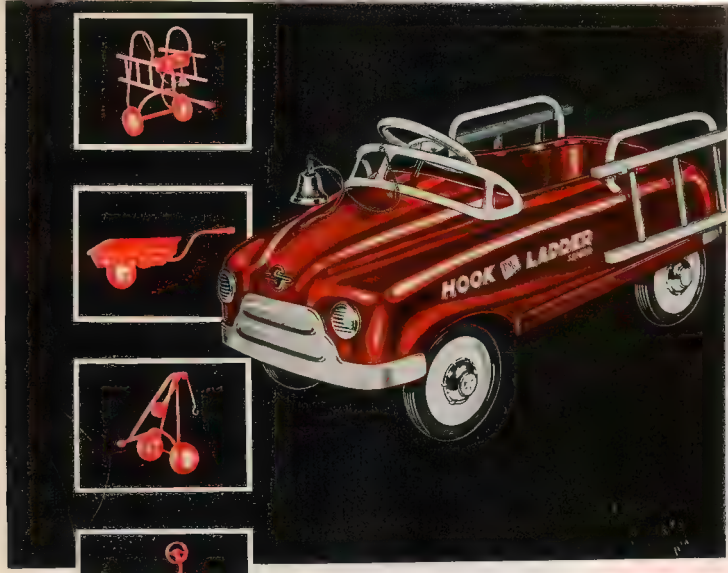
M C is the *popular* line . . . the *complete* line, too! What's
ore, all B M C models have longer age range than any
milar products. Remember—B M C always means fast sales
rnover: So stock the leader! Stock B M C *today!*

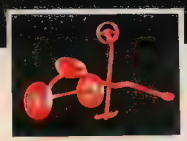
See our exhibit at The Toy Fair
Room 810 200 Fifth Ave. New York

Write for FREE catalog

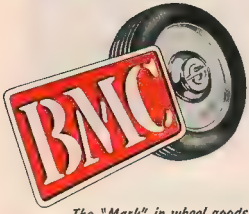
See the complete line of B M C leaders that *assure* rapid sales turnover!

INGHAMTON, NEW YORK





STOCK B.M.C.-*the QUALITY line.*



The "Mark" in wheel goods

You'll agree that the B M C line offers *everything!* Practic new-era design . . . *quality* construction unequalled in t wheel goods field . . . longer age range that *appeals* to paren What's more, the B M C line is a recognized leader—in popu demand all over the country. All these facts add up to MOR PROFITS for *YOU* when you handle the entire B M C li Besides, you get the advantage of B M C's interesting li of attachments and accessories—the only *complete* line its kind!

B M C MEANS FUN FOR *MORE* THAN ONE . . .

With a B M C Tractor and Sulky attachment, for examp

B M C MANUFACTURING CORPORATIO

...the only line with COMPLETE sales appeal!

two children can have hours and hours of fun playing together. No more arguments! These are some of the reasons why parent prospects become eager customers. And when you point out the exclusive features that guarantee long age range, the super quality, the ease of operation and the extra fun that's "built into" all B M C models —Mister, you've made a sale! Stock the leader: Stock B M C *today!*

Write for FREE catalog—

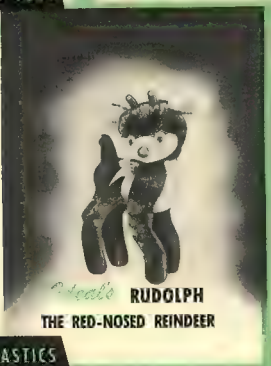
See the B M C new, popular-priced models and the established B M C leaders that mean *rapid sales turnover* for *you!*

B I N G H A M T O N , N. Y.

IDEAL'S

$UCCE$$ STORIE$

IDEAL STUFFED TOYS



Ideal's **RUDOLPH**
THE RED-NOSED REINDEER

Ideal's
TUMBLING BEAR

IDEAL PLASTICS

Ideal's
BLUE WILLOW
TEA SETS

Ideal's
BUBBLE PIPE
AND HUMIDOR

...and more...

IDEAL TOYS GET "TOP BILLING" EVERYWHERE!

IDEAL DOLLS

IDEAL'S

Toni

DOLL

IDEAL'S

BLESSED EVENT

DOLL

...and more...

IDEAL TOYS ARE NEW—EXCITING—DIFFERENT!

it's become a

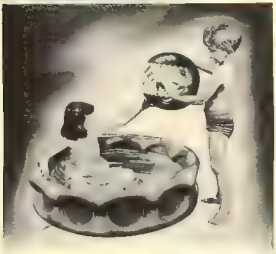
HABIT

Ideal is *always* toy news!
Ideal toy promotions pay off for you!

...That's why toy buyers
Look to IDEAL for smash hits!

HERE ARE JUST A FEW OF IDEAL'S CURRENT SMASH HITS...

IDEAL INFLATABLES



Ideal's
SUPERWALL

IDEAL PRE-SCHOOL TOYS

Ideal's
PEG BENCH AND BLACKBOARD SET

NOW!

COME IN TO ROOM 416 AND SEE IDEAL'S

NEW MEDAL WINNERS!

IDEAL TOY CORPORATION

FORMERLY IDEAL NOVELTY & TOY CO

200 FIFTH AVE., New York 10, N.Y.

CHICAGO 14-108 Merchandise Mart | DALLAS 902 Commerce St. | LOS ANGELES 914 So. Main St.

A Saunders EXCLUSIVE!

The New-Sensational-Action Packed

CATAPULT PLANE CARRIER

• A TERRIFIC SELLER BECAUSE IT HAS TERRIFIC PLAY VALUE!

CATAPULTS JET PLANES FROM FLIGHT DECK!

Complete with 5 Jet planes and 2 catapult renewals

AMPHIBIAN— RUNS ON LAND— FLOATS ON WATER!

LOOKS JUST LIKE A REAL PLANE CARRIER WITH:

- FLIGHT DECK
- SUPER STRUCTURE
- SMOKE STACK
- GUNS

A realistic action toy of plastic. Jet planes are shot from the flight deck a distance of 15 to 20 feet. Body of carrier designed to simulate appearance of the Navy's fighting flat top. Comes with 5 fighter planes.

Wheels permit play on floor and the water tight hull allows it to float on water. Renewal catapults are easily replaced. Carrier length 12½ inches, height 3 inches, width 3 inches. Individually boxed. Packed 2 dozen to carton.

Saunders

500 RATHBONE AVENUE

TOOL and DIE CO. ★ Aurora, Illinois

PLASTIC MECHANICAL TOYS

Saunders

TOOL and DIE CO. ★ Aurora, Illinois

PLASTIC MECHANICAL TOYS-

...FIRST with the NEWEST on WHEELS!

SAUNDERS No. 600
Super BATTLE TANK
with Powerful
Geared Friction Motor!
WORLD'S CHAMPION CLIMBER!
NOTHING ELSE LIKE IT!
Authentic Detail Revolving Turret and Cannon
Realistic Tank Action Over Rough Ground!
Pulls MANY TIMES Its Own Weight!

Built like a battle tank with high powered friction motor. Made of shock resistant plastic in regular Army color. Revolving turret with insignia decal on sides. Will climb over difficult terrain and obstructions. Size 8" long, 4½" wide, 4" high. Individually boxed.

OUR REPRESENTATIVES

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Room 424
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1442 Merchandise Mart
Chicago 54, Illinois

Pacific Coast
WARD FRANCIS COMPANY
101 Terminal Sales Bldg.
Seattle 1, Washington
&
527 West Seventh St.
Los Angeles, California

Southeast & Southwest
THE RIVERS COMPANY
Radio Center Bldg.
Memphis, Tennessee

RUNS FORWARD
BUMPS
RUNS BACKWARD!

IT'S A "WHIZZ"—

SUPER MOTOR BUS

with the Phenomenal
REVERSO-GYRO-MOTOR!

A MECHANISM THAT DEFIES ALL KNOWN MECHANICAL PRINCIPALS IN A TOY! (patent pending)

- ***Runs 3 to 4 Times As Long As The Ordinary Friction Motor!***

No. 500. Runs Forward . . . BUMPS . . . Reverses! Runs Backward . . . BUMPS . . . and continues action until power dies.

Brilliant decorated body in red, yellow and silver combinations with decals.

Rubber tires. Length, 12½"—Height, 4½"—Width, 3½".

Individually boxed.

No. 250

FIRE CHIEF Car

WITH SIREN!

POWERED BY FRICTION MOTOR. SIMULATED SIREN ON FENDER. SIMULATED TOP LIGHT.

Heavy plastic body. Enclosed motor. Decorated grill and bumpers. Length, 10½".

Gold lettering decals on side and hood. Red body with black top. Individually boxed.

. . . LOOKS JUST LIKE THE REAL THING!

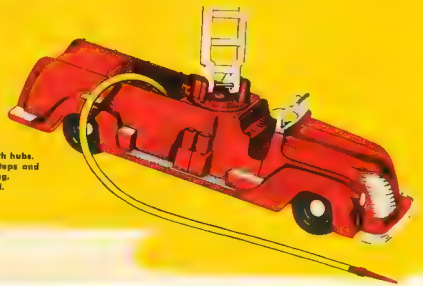
No. 300

SUPER Fire Truck

POWERED BY FRICTION MOTOR WITH SIREN! ADJUSTABLE LADDER MOUNTED ON SWIVEL. FIRE HOSE AND NOZZLE.

Heavy plastic recessed body in bright red. Emergency compartment mounted on rear. Enclosed motor.

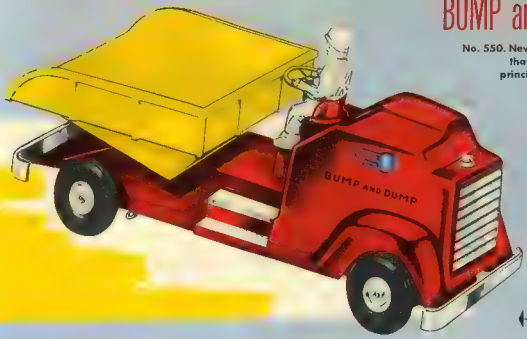
Rubber wheels with hubs. Silver decorated steps and grill. 12 inches long. Individually boxed.



A TERRIFIC SELLER!! EVERY BOY WANTS ONE!

REVERSO-GYRO-MOTOR!

BUMP and DUMP TRUCK

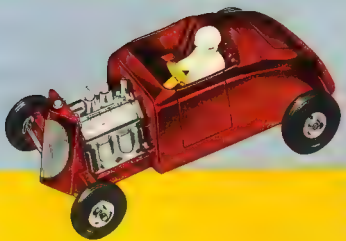


No. 550. New reversing friction drive motor that defies all known mechanical principles in a toy. (Patent pending.)

IT BUMPS—
IT DUMPS—
IT RETURNS!

No winding . . . just a short, even push and it is on the way . . . speedily! Choice of two color combinations: red body with yellow dump, or yellow body with red dump. Of sturdy plastic with steel frame. Rubber tires. Size: 10½" x 4¾" x 4½". Individually boxed.

LOTS OF ACTION:
RUNS BACKWARD ←
BUMPS!
DUMPS!
and RETURNS FORWARD! →



IT'S TERRIFIC!

"HOT ROD" with "SOUPED-UP" Motor

IT RUNS—IT CLIMBS—IT JUMPS!

No. 400. Hottest, fastest action of any mechanical toy! A real sensation!

Stripped down, bright red plastic body. Aluminum color motor and grill. Rubber tires. Size: 7½" x 3¾" x 3". Individually boxed.

No. 225

POLICE SQUAD Car

WITH POWERFUL FRICTION MOTOR AND SIREN! AERIAL! SIMULATED TOP LIGHT AND SIREN ON FENDER!

What a beauty! Heavy plastic body in red or blue. Gold lettering decals on side and hood.

Decorated windows and grill. Enclosed motor. Rubber wheels. Individually boxed.

A FAITHFUL REPRODUCTION IN MINIATURE!

Saunders

TOOL and DIE CO. ★ Aurora, Illinois

PLASTIC MECHANICAL TOYS

AC Spark Plugs

With Patented CORALOX Insulator

K. C. - O. C. each
Lots of 1 to 9 1 K $0.80
Lots of 50 L E
Lots of 100 L O

All AC Spark Plugs have a type number which designates the thread size and relative "Heat Range" of the plug.

Numbers starting with "2" are ½ in. thread size.
Numbers starting with "4" are 14 MM thread size.
Numbers starting with "7" are 7/8 in. thread size.
Numbers starting with "8" are 18 MM thread size.
Numbers starting with "10" are 10 MM thread size.

Prices

Less than Four Plugs ..... Each .75

Passenger Cars

***Buick**
1931-37 86
1938-42 46
1946-49 48

***Cadillac**
1931-35 84
1936-38 45
1939-48 104
1949 46-5

***Chevrolet**
1933-37 46
1938-40 44
1941-45 104-106
1946-48 ..... M8 or 108
1949 46-5

Chrysler
1935-36 46
1934-42 with HC alum. head 45L
1936-42 45
1946-49 44

Crosley
1939-46 44
1947-49 45

De Soto
1932-33 Silver Dome. 47
1932-36 Red Head .. 46
1934-42 with HC alum. head 45L
1937-42 45
1946-49 44

Dodge
1932-36 46
1937-42 45
1932-42 with HC alum. head 45L
1946-49 44

Ford
1933-37 with ⅞-in. plug 76
1933-37 with 18 MM plug 84
1937-49 ..... 45L

Frazer
1946-49 44

Hudson
1934-49 44
EXCEPT 1934-49 with HC alum. head... 45L

Hupmobile
1938-41 84

Kaiser
1946-49 44

***La Salle**
1936-38 44
1939-40 104

Lincoln
1934-39 86
1940-49 ..... 45L or 43L
1949-V8 ..... 45L

Lincoln-Zephyr
1936-42 ..... 45L or 43L

Mercury
1939-49 ..... 45L

***Nash**
1935-42 45
1946-49 44

***Oldsmobile**
1929-36 86
1937-48 45
1949 45

***Packard**
1933-36 45
1937-49 104

Plymouth
1932-36 Silver Dome. 46
1932-36 Red Head.... 45
1937-42 45
EXCEPT 1934-42 with HC alum. head .. 45L
1946-49 44

***Pontiac**
1934-49 45
EXCEPT 1934-48 with HC head 44

Studebaker
1933-41 86
EXCEPT 1933-41 with HC head 84
1941 Champion 6.... 44
1942-49 44

Willys
1930-39 86
1940-42 with HC head 45L
1940-49 44

Condensed Truck and Truck-Tractor Specifications

†Recommended for normal service

***Chevrolet**
1933-37 All Models 46-Com
1938-40 All Models 44-Com
1941-48 All Models 104-Com
1949 All Models 44-5-Com

Dodge (Engine Models)
Model 124, 130 ..... 78L-Com
Model CG, DD-2C, U 86-Com
Model, DA-1E, DA-2E, DD, DD-2A, DD-2E, DD-2G, DD-2T, DP, TC-1E, T-4E 85-Com
Model CG-3 ..... 86S-Com
1937-42 All Engines with aluminum heads.. 45L-Com
1935-49 All Engines with cast iron heads.... 44-Com

Ford
1936-37 V8-85 (Series 51, 67, 77, 79) 85-Com
1937-40 V8-60 ..... 45L-Com
1941-42 Economy 4 Cyl. (Ser. 1NC, 2NC) .. 45L-Com
1941-45 Model GP (Army Jeep)..... 45L-Com
1938-49 All others 43L-Com

Ford (Bus)
1938-48 All Models 43L-Com

***G.M.C. (Engine Models)**
1935 Model 221 (After Engine 221-18144); 1938 Model 228 ..... 45-Com
1937-40 Model 230; 1936-38 Models 239, 286; 1937-38 Models 257 (After Eng. 1257-9645), 331, 400, 450 ..... 45-Com
1937-40 Model 216 (Chev.); 1939-49 Models 228, 236, 248, 256, 270, 278, 308, 361, 426, 451, 477 ..... 44-Com
1941-42 Model 235 (Chev.) 104-Com

***International Harvester**
Engines FAB, FAC, FBB, FBC, FD, FE, SAH, SLH, XA, XAH, HS 74-Com
Engines FC, FK, GRD, HD 85S-Com
Engine R-6586 (Cont.) 82-Com
Engines GRD-233, GRD-233A 44-Com
Engines BLD, RED, FAC Improved 43-Com
Engines GRD-214, GRD-214A 45-Com

***Mack**
Engine Models (⅞-In. Hd.) AB, AC, AK, AP, BC, BK, BQ, BX 75-Com
Engine Models (18 MM) AB, BG, BL 85-Com
Engine Models (18 MM) CE, CF, CT, CU, EF, EN-11, EN-253, EN-271, EN-310, EN-354, EN-354A, EN-405, EN-431, EN-457, EN-471, EN-510, EN-510A, EN-707A, EO, EP, EP611, EY, FK, FM, FO, MR-140, MR-209, MR-228, MR-268 ..... 83-Com
Engine Models (14MM) EN-354, (EH Army), EN-405, EN-431, EN-457, EN-471, EN-510, EN-532 (NJU Army), EJ, EO, EP, EY, EY (NM&NO Army) 43-Com

Studebaker
1937 Models J20, J20M, J25, J25M, J30, J30M; 1938-40 Models K30, K30M 75-Com
1941 Models M5, M15, M16 ..... 86-Com
1933-40 All others 86-Com
1942-49 All Models 44-Com

Willys Jeep
All Models 44

*Denotes AC Spark Plugs used as original factory equipment on some or all models
†For severe service, select a plug one or two numbers cooler.

For models not listed, see complete AC specification chart.

an Early Start in '51

PAVES THE WAY FOR

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SALES REPRESENTATIVES

ALLIED-GRAND DOLL MFG. CO., INC.

72 NOSTRAND AVENUE BROOKLYN 5, N. Y.

Walt

ALICE IN WONDERLAND

Golden Books

WALT DISNEY'S new film, *Alice in Wonderland*, will be released in August. Advance reports say it is even bigger than *Cinderella*. Publicity-wise it will get the Works. Simon and Schuster is happy to be able to offer 12 ALICE books and records based on the film—all exclusive with us in their price field.

One BIG GOLDEN BOOK

WALT DISNEY'S ALICE IN WONDERLAND. A big, (9½ x 13) beautiful picture book, sparkling with many colors—and gold on the cover. *Ready in March.* **$1 retail.**

***Three* LITTLE GOLDEN BOOKS**

All in color. 25c each, retail.

D20. ALICE IN WONDERLAND IN THE GARDEN OF LIVE FLOWERS *(April)*

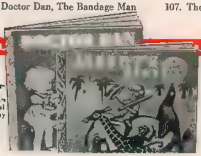
D19. ALICE IN WONDERLAND MEETS THE WHITE RABBIT *(May)*

D23. ALICE IN WONDERLAND AND THE MAD HATTER *(Fall)*

MORE NEW Little Golden Books

25c each, retail. Crammed with color and surprises.

D18. Donald Duck's Toy Train
D21. *Walt Disney's* Grandpa Bunny
92. I Can Fly
100. Little Boy With a Big Horn
101. The Little Golden A B C
102. Ukelele and Her New Doll
111. Doctor Dan, The Bandage Man
112. Albert's Zoo
113. The Little Golden Paper Dolls
108. Two Little Gardeners *(April)*
114. Pantaloon *(April)*
103. Christopher and the Columbus *(May)*
107. The Kitten's Surprise *(May)*
109. The Little Golden Holiday Book *(May)*
110. A Day at the Beach *(June)*
118. The Train to Timbuctoo *(June)*
119. A Day at the Playground *(June)*
117. M-G-M's Tom and Jerry *(July)*



111. DOCTOR DAN—contains 6 real bandages to play doctor with.

112. ALBERT'S ZOO—with stencil animals that you can put in cages.

113. PAPER DOLLS—Real paper-dolls to dress.

114. PANTALOON—With furry "touch-me" animals to pat.

RICH-CON Super

30 INCH MODEL

The medium size, 30-inch model, next in line to the Roadmaster. Has the same outstanding features and completeness of detail only smaller. The finish is bright red in baked enamel for permanency. All steel throughout with heavy gauge body, large diameter axles and reinforced chassis members. The latest in body design includes beaded bottom, extra wide flat edge top and rolled edge crimped underneath. Specifications: Size of body 13½x30x3½ inches deep; disc wheels with wood bearings, equipped with 8.00x1.25 inch molded rubber tires, solid rubber without seams. Each wagon comes to you individually packed, wt. 25 lbs.

No. GS-500MT..... O.C. Net each **L O E**

The GREYHOUND

FOR TINY TOTS

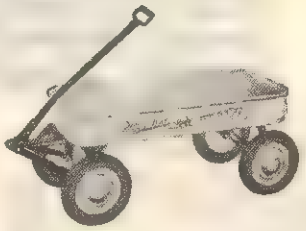
Just the size for the three-year-olds. True to mechanical details and eye appeal only on a smaller scale. Here is the wagon for the little one—it meets his body size and fills his imagination. Stenciled "Greyhound", the body is red enameled baked-on finish. The "new look" is complete—"a chip off the same block", and just as important to have in stock as the larger sizes. As a matter of fact, this has always been the most popular seller. Specifications: Body size 10x21½x3¾ in. deep; disc wheels with wood bearings, equipped with 5x1½ inch molded rubber tires. Individually boxed, packed 6 in a case. Weight each 8½ lbs.

No. GS-200MT..... O.C. Net each **Y I E**

SCOOTERS

DeLuxe model scooter, precision built to give an entirely new thrill in scooter coasting. Look it over: 10 inch wheels with Congo bearings and semi-inflated rubber tires 10x1¾ in.—the widest tire ever put on a scooter. 13 inch tubular steel handle with rubber grips. Equipped with parking stand and brake. Brilliant red enamel finish with white trim, baked-on. 10x1¾ in. tires. Height 34 ins. Length, 38 ins. **One in a box. Ship. wt. each 16½ lbs.**

No. GS-464 . . . K.C.-O.C. Net each **U O K**



ALL STEEL FLYER WAGONS

MODEL 7, American Beauty. A practical small wagon. Body: 20"x10"x3"; Wheels are 5" double disc, plain bearing; Tires: ¼" rubber tires; Axles: ¼" round; Bright red baked enamel on body and wheels. **Packed 6 in carton, ship. wt. 43 lbs.**

No. GS-7 . . . . . K.C. Net each **Y U X**
O.C. **Y U A**

MODEL 9, Radio Special. This coaster has heavy gauge bolsters, front gear and fifth wheel. Body: 28"x13"x3¾"; Wheels: 7" double disc, plain bearing; ¾" rubber tires; Axles: 3/8" round; Bright red baked enamel, gray wheels, red striped. **Packed 1 in carton, ship. wt. 17 lbs.**

No. GS-9 . . . . . K.C. Net each **O E U**
O.C. **O J L**

MODEL 9A, Radio Super. A smart, sturdy "special" wagon with heavy gauge bolsters, front gear and fifth wheel. Body: 28"x13"x3¾"; Wheels: gray baked enamel with red stripe, 7" double disc, 7"x1.25" super-balloon molded tires, "Congo" lifetime bearings; Axles are 3/8" round. Bright red baked enamel. **Packed 1 in carton, ship. wt. 18 lbs.**

No. GS-9A . . . . . K.C. Net each **U C O**
O.C. **L K U**

MODEL 18, Radio Flyer. A full size, top quality wagon: body size 34"x15½"x4½", black gear and handle. Wheels are 10" double disc, "Congo" lifetime bearings; super-balloon molded tires 10"x1.75"; Axles: ½" round; Color: bright red baked enamel; wheels, sparkling gray enamel with red stripe. **Packed 1 in carton, ship. wt. 33½ lbs.**

No. GS-18 . . . . . K.C. Net each **E U E**
O.C. **E I A**

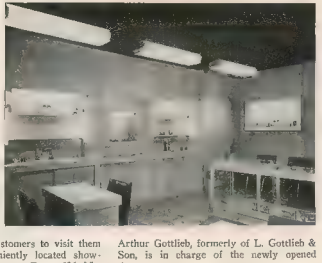
MODEL 20, Town and Country. A big wagon with a multitude of uses—for farm, ranch, town and general utility. Big 10:00x1.75 super-balloon molded tires to carry heavy loads. Removable interlocking steel stake panels for delivery and pickups. Body with panels 41½"x17¾" and 10"; body alone is 4½" deep. Axles ½" round with Congo lifetime bearings; Bright red baked enamel body; wheels and stake panels sparkling gray enamel with red trim; sturdy black running gear. Complete with set of decal letters and numerals to personalize the wagon. **Packed 1 in carton, ship. wt. 48 lbs.**

No. GS-20 . . . . . K.C. Net each **Y X O X**
O.C. **Y X I O**

Lido Toy Opens New Showroom

Lido Toy Corp., 781 East 135th Street, New York 54, N. Y., manufacturers of a wide variety of popular priced cowboy and Indian sets, assorted vehicles, boxed sets, horse and rider sets, etc., have announced the opening of their new showrooms at 200 Fifth Avenue, New York City, Room 206. This handsome and spacious showroom is a splendid example of modern interior display. The most modern lighting fixtures and showcases have been installed to show the extensive Lido line to excellent advantage. In addition, the company has recently enlarged its facilities in order to keep pace with the constantly growing demand for Lido products, and now occupy more than 30,000 square feet which are being devoted entirely to manufacturing purposes.

Present promotional plans include an extensive advertising campaign to the toy trade as well as the export market, chain stores, and the consumer market. A cordial invitation is extended by Lido Toy Corp to all friends and customers to visit them in their new conveniently located showroom at 200 Fifth Avenue, Room 206, Mr. Arthur Gottlieb, formerly of L. Gottlieb & Son, is in charge of the newly opened showroom



This view of the new Lido display emphasizes the modern lighting effect.

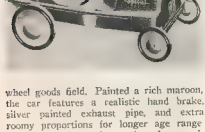
BMC MANUFACTURING CORP. ANNOUNCES NEW LINE

BMC Manufacturing Corporation of Binghamton, N. Y., leading manufacturers of juvenile wheeltoys, announces its entry into the popular priced wheel goods field with eight new pedal driven models in the new Special and Sportster Series.

The Special Series introduces an authentically designed American racer in the Roadster, and Dump Truck. All models feature smart streamlined '51 design, realistic three position gear shift, and extra wide bodies for ample seat room. Ball bearings are in wheels and rear axle hangers to insure free wheeling and long wear. Tires are ½" solid rubber.

All eight models have such well known BMC quality construction features as heavy gauge steel body, all welded tubular steel chassis, auto spindle type axle for easy pivot point turning and steering, no-mar baked enamel finish for longer life, and no "dead center" drive. Pedals are adjustable for various ages. Improved undergear design gives more leg room, accommodates larger youngsters and increases power.

With the addition of these eight cars, the BMC line now includes 42 different models of autos, racers, tractors, attachments, and wagons.



wheel goods field. Painted a rich maroon, the car features a realistic hand brake, silver painted exhaust pipe, and extra roomy proportions for longer age range. Actual tests have shown that the racer's wind swept styling and large oversized rear wheels make it 20% faster than the conventional car. This new BMC wheeltoy is available with semi-pneumatic tires and ball bearings or solid rubber tires and nylon bearings.

The BMC Sportster Series includes six distinctive styled models, Hook & Ladder, Police Car, Station Wagon, Fire Chief,

Herbert Rubin

NEW YORK TOY PREPARES FOR TOY FAIR

Herbert Rubin, president of New York Toy and Game Manufacturing Company has stepped up production at his factory to keep up with the mounting orders for the 1951 line. Included in the New York Toy Line are many numbers for Spring selling, such as their famous line of Fishing Sets, Golf Sets and Baseball Sets. In addition to these old time favorites, there are the outstanding "Jr. Ace" lines of Tool Chests, Basketball Sets, and the amazing "Tu-Way" Punching Bag Set, which is the only set of its kind that converts from floor type model to wall model. There is also a complete range of their ever popular Sewing Sets, Safety Dart Games, Fingerprint Sets, Magnetic Fishing Games, Educational Games, and numerous others.

The complete line of New York Toy & Game Manufacturing Co. is on permanent display in the new showroom, Room 348, 200 Fifth Avenue, where Mr. Rubin will be happy to welcome the many out-of-town buyers attending the New York Toy Fair.

Buccaneer Outboard Motors

BUCCANEER Outboard Motors are designed to give outstanding performance with trouble-free use. Only the best quality of material, only the latest proven advances in design and manufacturing methods by one of the oldest manufacturers of outboard motors.

1557AU5578—1½ H.P. Single Motor
Rope type starter, 360° full reversing adjustable steering, 1 cylinder. Gas tank capacity—0.5, concentric type float carburetor, rubber rotor waterpump, 2 weedless propellers rubber cushioned for extra protection to shear pin when under water obstacle is encountered, single lever speed control—throttle synchronized with spark control, vibration insulation mounted in rubber, and salt water protection. Net wt. 31 lbs. F.O.B. Illinois.
Mfr's. Sugg. Retail $70.95

1558AU7255—3 H.P. Single Motor
Powerful, yet easy to carry single cylinder motor. Rope type starter, 360° full reversing adjustable steering, 1 cylinder. Gas tank capacity—0.5, 1½ to 10 M.P.H. light to heavy craft. Single jet, float feed, reed valve type carburetor with low speed idling adjustment. Rubber rotor waterpump. 2 weedless propellers with rubber clutch protection to shear pin. Throttle synchronized with spark control, vibration insulation mounted in rubber, and salt water protection. Net wt. 38 lbs. F.O.B. Illinois.
Mfr's. Sugg. Retail $95.50

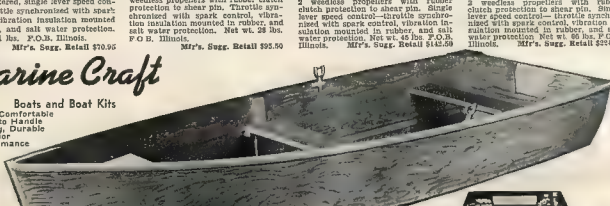
1559AU10687—5 H.P. Alternate Firing Twin Motor
The motor preferred by most fishermen. Automatic Rewind starter, 360° full reversing adjustable co-pilot steering, 2 cylinders. Gas tank capacity—0.5, 1½ to 12 M.P.H. light to heavy craft. Single jet float feed, reed valve type carburetor with low speed idling adjustment Rubber rotor waterpump. 2 weedless propellers with rubber clutch protection to shear pin. Single lever speed control—throttle synchronized with spark control, vibration insulation mounted in rubber, and salt water protection. Net wt. 45 lbs F.O.B. Illinois.
Mfr's. Sugg. Retail $142.50

1560AU16818—12 H.P. Alternate Firing Twin Motor
Acceleration, speed and dependability all blended into the best horsepower per dollar value on the market. Automatic Rewind starter, 360° full reversing adjustable co-pilot steering, 2 cylinders. Gas tank capacity—1.5, 3 to 22 M.P.H light to heavy craft. Concentric type float carburetor, Positive displacement type water pump. 2 weedless propellers with rubber clutch protection to shear pin. Single lever speed control—throttle synchronized with spark control, vibration insulation mounted in rubber, and salt water protection Net wt. 66 lbs. F.O.B. Illinois.
Mfr's. Sugg. Retail $254.75

Marine Craft

Boats and Boat Kits

- Safe, Comfortable
- Easy to Handle
- Strong, Durable
- Superior Performance



Specifications for 14' Utility and 12' Skiff Craft Models: Gunwale, Chines, Knee, Seats and Stem of Clear Fir. Bottom of ⅜ inch 5-Ply Fir Waterproof Plywood. Sides of ¼ inch 3-Ply Fir Waterproof Plywood. Transom of ⅝ inch 7-Ply Fir Waterproof Plywood.

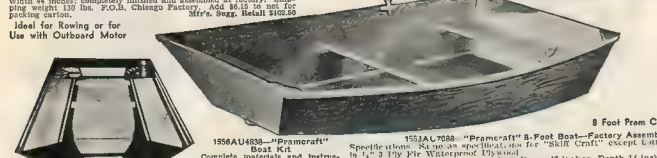
1501AU8902—12' "Skiff Craft"—Assembled
Length 11 feet 9 inches; Beam 42½ inches; Depth 15 inches; Transom Width 36½ inches; completely finished and assembled at factory. Shipping weight 90 lbs. F.O.B. Chicago Factory. Add $4.63 to net for packing carton
Mfr's. Sugg. Retail $119.50

1501AU12188—14' "Utility Craft"—Assembled
Length 13 feet, 6 inches; Beam 51½ inches; Depth 16 inches, Transom Width 44 inches; completely finished and assembled at factory. Shipping weight 130 lbs. F.O.B. Chicago Factory. Add $6.15 to net for packing carton.
Mfr's. Sugg. Retail $162.50

Ideal for Rowing or for Use with Outboard Motor

12 Foot Skiff Craft
Complete materials and instructions for making the boat—a few simple hand tools—saw, screwdriver, drill, and tool brush are all that is required. F.O.B. Chicago Factory.
1502AU7688—12' "Skiff Craft" Boat Kit.
Mfr's. Sugg. Retail $98.50
1502AU8362—14' "Utility Craft" Boat Kit.
Mfr's. Sugg. Retail $131.50

12 Foot Sk-9 Kit



8 Foot Pram Craft Kit

1556AU4838—"Pramcraft" Boat Kit
Complete materials and instructions for making the "Pramcraft" 8-foot Boat as illustrated. F.O.B. Chicago Factory.
Mfr's. Sugg. Retail $64.50

8 Foot Pram Craft

1553AU7088—"Pramcraft" 8-Foot Boat—Factory Assembled
Specifications same as specification for "Skiff Craft" except Bottom is ¼" 3 Ply Fir Waterproof Plywood
Dimensions Length 7 feet 11 inches, Beam 46 inches Depth 14 inches; completely finished and assembled at factory. Shipping Weight 30 pounds. Add $3.75 to net for packing carton
Mfr's. Suggested Retail $94.50

Fiber Glass Wonderods

Fast Action—Power Built—Tru-Aim Accuracy
Only Wonderod Gives You All Three Features

Bait Casting Wonderods

Made of glass fibers and laminating resins. Double offset handle. Guides and tip top have genuine carboloy rings, chrome plated. Complete with carrying case. **Mfr's. Sugg. Retail**

1455AU1410—Length 5' 2" $23.50
1508AU1470—Length 5' 8" 24.50

Translucent Amber Bait Casting Wonderods

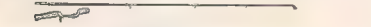
Constructed of glass fibers and laminating resins. Tru-Aim double offset handle. Guides and tip top in Stainless Steel. Complete with blue cloth sack; dowel tip protector.

1505AU800—Medium action, length 5' 2"..... $15.00
1526AU990—Light action, length 5' 8"..... 16.50

"Sea Green" Glass Wonderods

New inexpensive bait casting wonderods with the same outstanding glass fiber construction. Double offset handle with cork grip—screw clamp reel seat. Sea green finish with glass winds. Stainless steel guides and tip top. Cloth case. **Mfr's. Sugg. Retail**

1603AU650—"Sea Green" Wonderod, 4'6" length..... $10.00
1604AU600—"Sea Green" Wonderod, 5'2" length..... 10.00

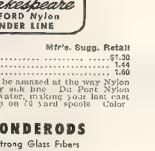


Steel Bait Casting Rods

1596AU688—**Solid Steel Silver Swan.** Square blade with rounded corners—baked on enamel finish. Tru Aim double offset handle. Chrome plated guides. 5" long steel supported top. **Mfr's. Sugg. Retail $9.50**

1399AU650—**Kwik-Aim** similar to above with blue glass winds, tangerine tipped. Length 5' 2". **Mfr's. Sugg. Retail $11.00**

★NOTICE—All prices quoted herein are subject to manufacturer's or Kaynut's Suggested Retail prices and do not include the Federal Excise Tax. They are not the prices at which Bennett Brothers sell. See Page 680.



Nylon Bait Casting Line

Mfr's. Sugg. Retail

1382AU78—15 lb. Test $1.30
1384AU86—20 lb. Test..... 1.44
1385AU96—25 lb. Test..... 1.60

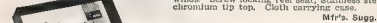
Unequalled in strength, you'll be amazed at the way Nylon casting line outlasts ordinary silk line. Du Pont Nylon Filament has no affinity for water, making your first cast as dry as your first. Put up on 75 yard spools. Color Black.

Fly Line, Fly Reels and the Shakespeare FLY WONDERODS

Made of Strong Glass Fibers

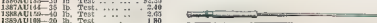
Glass Fly Wonderod

1474AU3000—A 2-piece 8'6" glass fiber fly wonderod, weighing 5 ounces, that will whip any fish caught by fly fishing. Unbelievable power—stronger than steel. Rod does not take a "set," rot, rust, or mildew. Ultra-light screw locking reel seat. Stainless Steel guides and chrome plated rustproof tip top. Aluminum carrying case.
Mfr's. Sugg. Retail $50.00



Goldenrod Glass Fly Wonderod

1597AU1650—All 'round 2-piece Wonderod built to handle almost any type of fly rod lure. Weighing 6 2 oz. and 8'6" in length, this rod is finished in Goldenrod with green glass winds. Screw locking reel seat. Stainless steel guides and chromium tip top. Cloth carrying case.
Mfr's. Sugg. Retail $27.50



Goldenrod Glass Fly Wonderod

1598AU1350—A 2 piece 7'9" combination fly and spinning rod weighing 5 oz. Specie cork grip is 7" long. Screw locking reel seat, green glass winds and chrome plated ferrules. Stainless Steel guides and chromium tip top. Cloth carrying case. **Mfr's. Sugg. Retail $22.50**

1398AU950—Spring Brook Fly Rod

Combines perfect balance, powerful action, long life and moderate price. Reel seat Tenite, screw type locking band. Three-piece natural finish split bamboo. Uses tip. Dry fly action. Cloth sack 5½ ft. (6 oz.) or 8 ft. (6½ oz.).
Mfr's. Sugg. Retail $15.50

Glass Fly Wonderod

1475AU2700—A 2-piece 7'9" fly rod weighing only 3½ ounces that will handle even a big bass bug. A real fish getter. Stronger than steel. Ultra-light screw locking reel seat. Stainless Steel guides and chrome plated rustproof tip top. Rod will not take a "set" rust, rot, or mildew. Aluminum carrying case.
Mfr's. Sugg. Retail $45.00

Level Nylon Fly Line

Mfr's. Sugg. Retail

1386AU135—10 lb. Test..... $2.25
1387AU144—15 lb. Test..... 2.40
1388AU154—20 lb. Test..... 2.65
1389AU188—20 lb. Test..... 1 80

Water-repellent. This oil finished Level Nylon Fly Line will pick-up off water with outstanding ease. Put up in 25 yard coils. Color: Natural Amber Oil Finish.

1387AU540—Double Tapered Fly Line

Oil finished Nylon Fly Line made up on 20 yard coils. Water-repellent in Natural Amber Oil Finish color. Specify HCH, HDH or HEH size.
Mfr's. Sugg. Retail $9.00

1469AU570—Tru-Art Automatic Fly Reels

Automatic reel that eliminates noise. Aluminum frame; release lever friction clutch prevents over-winding of spring. Free stripping. Anodized green spring cap and frame. Spool dia. 2¾", capacity 80 yds line.
Mfr's Sugg. Retail $9.50

1479AU540—Same as above with capacity 50 yds. line
Mfr's. Sugg. Retail $8.00

BUDDY 'L'

America's Finest Playthings

Many Brand New

STEEL TOYS

Room 540

Sole Sales Representatives
HENRY KATZ
ROOM 540
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NEW YORK 10

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200 FIFTH AVENUE • NEW YORK 10, N. Y.

The most beautiful in the field!

PLASTICS
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RAILS & SHOVELS

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PICNIC SETS

TWIN STREAM SPRINKLING CANS

Coming
NEW ITEMS

PLASTIC PLAYTIME SETS

LIFESIZE

FOR PRACTICAL USE.

Practical pieces bring WORCESTER letters like:

"the nicest, most useful set I've ever seen"
Mrs. Ann Bolton
Torrance, Cal.

"the only set I have seen with such nice proportions"
Mrs. Ruth Miller
Chicago, Ill.

". . . it's beautiful and quite an incentive for eating foods, as the pieces are so large."
Mrs. Rita Ross
New York, N. Y.

Sole Sales Representatives
HENRY KATZ
ROOM 540
200 FIFTH AVENUE
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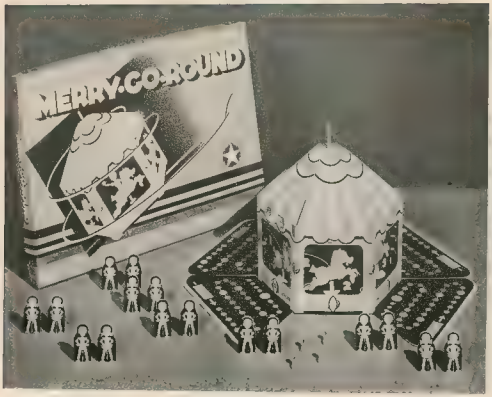
WORCESTER TOY COMPANY
WORCESTER, MASS.

CADACO·ELLIS GAMES



MERRY · GO · ROUND

- Fun galore. . . . Action every minute. . . . Everyone plays at once! Spin the MERRY-GO-ROUND for numbers to move playing pieces on individual game boards. First to get three children on the MERRY-GO-ROUND wins. Retail price $2.00.

- MERRY-GO-ROUND, WING-DING, SKOOT BALL. . . . Three new stars in the CADACO-ELLIS line-up of game favorites. . . . All on display in Room 407, Fifth Avenue Building.

CADACO·ELLIS

Merchandise Mart
CHICAGO

Originators of Games

200 Fifth Avenue
NEW YORK

ONE BUYER TELLS ANOTHER...

PETER PUPPET
World's Largest Manufacturer of Marionettes

CAMRAY
Finest Quality Wood Items

SUPERB
Quality — Style — Price

Levy & Fryer

ROOM 203

National Sales Representatives
for
Nationally Known Lines

CASTELLI
Durable, All-Metal Toys

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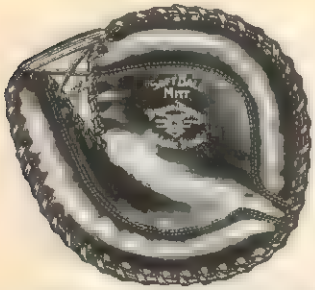
WAtkins 4-4080

BASEBALL AND SOFTBALL CATCHER'S MITTS



D & M Softball Catcher's Mitt. Gripper Pocket. Light weight model. Selected genuine cowhide palm and fingers, leather back. One-piece stitched oil treated face, formed pad with special padded outside edge. Bound and laced edge. Rawhide lacing between thumb and palm Adjustable leather laced wrist strap. Ship wt 1½ lbs

K.C.-O.C.Net each

No. GS-DG747..... I L K $9.35

D & M Catcher's Mitt. . . . Licensed under patent. This sturdy, streamlined strip model is made of genuine cowhide throughout, hand formed, with hand sewed felt pad. Loops for little finger and thumb, leather lacing between thumb and palm. Roll bound leather laced edge with metal eyelets Adjustable fleece lined, rawhide laced wrist protector. Ship. wt. 2½ lbs

K.C.-O.C.Net each

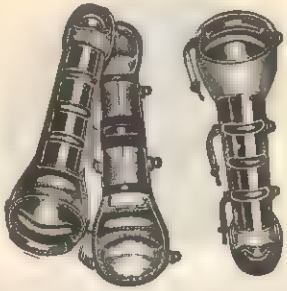
No. GS-DG975. Y X I X $19.25

D & M Catcher's Mitt. Medium size scoop model. Genuine cowhide, oil treated palm, form built felt pad. Bound leather laced edge with metal eyelets, leather lace between thumb and palm. Adjustable rawhide laced wrist strap. Deep molded ball pocket. Ship. wt. 2½ lbs.

K.C.-O.C.Net each

No. GS-DG981..... I E K $9.25

CATCHERS LEG GUARDS AND BODY PROTECTORS



D & M Catchers Leg Guards. Corrugated, dome molded, fibre leg piece with inside one-piece grain leather leg guard. Padded molded and corrugated fibre knee cap with corrugated fibre instep protection. Khaki roll padded knee joint backed with white felt. Khaki ankle joint with white felt padding. Elastic strap with quick action buckles. Ship wt. 2½ lbs

K.C.-O.C.Net pair

No. GS-DG878..... E L K $10.65

D & M Catchers Leg Guards. Corrugated dome molded, white felt padded knee cap. Corrugated molded fibre leg piece with inside one-piece grain leather leg guard. Roll leather, white felt padded knee joint. White felt padded corrugated molded fibre instep protector. White felt padded ankle protection. Elastic straps with quick action buckles. Ship. wt. 2½ lbs

K.C.-O.C.Net pair

No. GS-DG872..... A K X $13.25

D & M Body Protectors. Professional Short Model. An entirely new protector made of khaki army duck. Cross stitched and firmly stuffed. Newly designed adjustable leather back strap with snap fastener, web shoulder straps Ship. wt 3 lbs

K.C.-O.C.Net each

No. GS-DG882..... E L K $10.60

D & M Catchers' Body Protectors. Regulation Model. Extra strong khaki army duck cross stitched and firmly stuffed with finest quality kapok, full leather bound. Newly designed adjustable leather back strap with snap fastener, elastic shoulder straps. . Ship wt 3½ lbs

K.C.-O.C.Net each

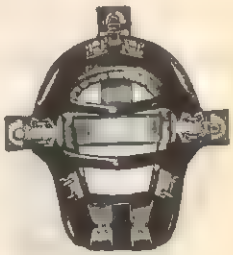
No. GS-DG881..... J O K $12.00

BASEBALL AND SOFTBALL MASKS

D & M Baseball Mask. Youth's size. Open vision style. Black enameled wire frame with welded joints. Padded leather face, forehead and chin cushions. Elastic head strap. Ship. wt 1½ lbs.

K.C.-O.C.Net each

No. GS-DG-856..... U O I $5.45



D & M Baseball Mask. Professional Two-Bar Model Perfect vision, absolute protection One-piece light weight magnesium frame with ⅝ inch cross bars Laced-in well padded face and chin cushions Adjustable heavy elastic and web head straps Ship wt 2 lbs.

No. GS-DG-851..... K.C.-O.C.Net each J U I $11.25

SOFTBALL MASK

D & M Softball Mask. Light weight. Open vision Black enameled wire frame with welted joints. Padded leather forehead and chin pads. Adjustable head strap. Ship. wt. 2 lbs

K.C.-O.C.Net each

No. GS-DG751..... O L K $3.95

BASEBALL FIELDERS' GLOVES

D & M Fielders' Glove......Major League Model. Featuring the non-rip thumb. Large pattern, medium length fingers. Selected glove leather, full leather lined, hand formed, asbestos felt pad, inner processed greased palm. Newly designed, adjustable roll leather tunnel web laced with leather thongs through metal eyelets between thumb and forefinger. Leather welted diverted finger seams. Roll leather bound, leather laced wrist. Wide leather wrist strap

K.C.-O.C.Net each
No. GS-DG914..... YKEK $17.25

D & M Fielders' Glove... Professional Model An excellent, streamline natural contour model featuring the "no rip" thumb. Made of selected glove leather with full leather lining. Formed pad. Improved double tunnel webb between thumb and forefinger with leather connector. Leather welted diverted finger seams. Roll leather bound wrist, leather laced through metal eyelets. Wide wrist strap

K.C.-O.C.Net each
No. GS-DG933..... COK $15.35

D & M Fielder's Glove. Youth's Model. Natural pocket full size "Pick Pocket". Streamline finger construction. Heavy weight glove leather, leather lined palm and finger. New type pad with narrow hinged heel provides a deep ball pocket. Adjusting lace at back of fingers, bound edge, laced wrist. **Individually boxed. Ship. wt. doz. 6½ lbs.**

No. GS-DG936 . . . . K.C.-O.C. Net each
. . . . . IOK $8.65

D & M Fielders' Glove. Medium size, welted streamlined thumb model of oil treated glove leather. Welted finger seams, full leather lined, shaped pad. Double tunnel web with leather lacing between thumb and palm. Leather laced bound wrist, leather wrist strap.

K.C.-O.C. each
No. GS-DG919..... LKX $ 6.65

D & M Fielder's Glove, Bill Rigney. Large size, streamline model, welted seams throughout. Selected heavy weight glove leather, full leather lined. Deep natural ball pocket provided by new type pad with narrow hinged heel. Leather bound, leather laced wrist. Large crotch. Extra large one-piece stitched leather tunnel web. **Individually boxed, ship. wt. 1¼ lbs.**

No. GS-DG918 . . . . . K.C.-O.C. Net each
. . . . . JOK $12.00

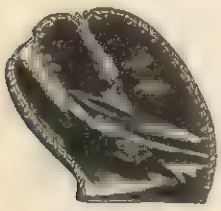
D & M Fielders' Glove. Youth's model low priced glove Fairly large streamlined thumb pattern. Made of genuine leather with leather lined palm and fingers. Leather lacing through metal eyelets between thumb and forefinger bound wrist. Padded thumb, heel and little finger

K.C.-O.C.Net each
No. GS-DG920..... IOK $8.65

D & M Fielders' Glove. Large size glove with welted, streamlined thumb. Made of genuine oil treated glove leather with full leather lining. Welted finger seams, shaped felt pad. Double tunnel web with leather connector, leather laced through metal eyelets between thumb and palm. Roll bound wrist, leather laced. Deep ball pocket.

K.C.-O.C.Net each
No. GS-DG935 ..... ELK $10.65

BASEBALL AND SOFTBALL BASEMEN'S MITTS



D & M Basemen's Mitt. Trapper Professional model. A full-size mitt of good quality mitt leather. Leather-lined palm and fingers. Bound edges, three-quarter leather laced. Double lacing between thumb and palm, seamed thumb, small finger loop. Adjustable wrist strap.

No.GS-DG955. K.C.Net Each ACI $12.00

D & M Softball Basemen's Mitt. Gripper Pocket. Genuine cowhide, leather lined. Oil treated stitched gripper palm. Shaped pad with padding on outside edge and heel. Leather welted thumb, three-quarter laced edge. Rawhide lacing between thumb and palm. Adjustable wrist protector. Ship. wt. 1½ lbs

K.C.-O.C. each
No. GS-DG742.....LJI $7.95

D & M Basemen's Mitt. Professional Model. Excellent quality cowhide, leather lined palm and fingers. Diagonal break felt pad. Bound edge, leather laced. Large one piece stitched leather tunnel web. Leather laced adjustable wrist strap. **Individually boxed, ship. wt. doz. 7 lbs.**

No. GS-963 . . . . . K.C.-O.C. Net each
. . . . . ILK $9.35

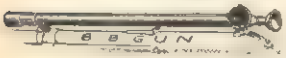
DAISY AIR RIFLES AND TARGETEERS, SCOPES, SHOT

Daisy Red Ryder Carbine. 1000 shot repeater. Fred Harman (famous cowboy-artist who draws and writes the exciting Red Ryder Comic Strip) helped design this husky, he-man rifle. It looks, feels and handles like a real western saddle gun. Equipped with lightning loader. Lever action. Packed 6 in a case, ship. wt. 27 lbs.

K.C.-O.C. Net each
No. GS-111- UE J $5.50

Daisy Pump Action Repeater. The king of all air rifles—a 50-shot force-feed repeater. Cocks easily by pulling slide toward stock. Has adjustable rear sight and non-slip grooves on butt of pistol grip; walnut stock; all metal parts blued with beautiful gold engraved jacket; take-down model; length 37 in., wt. 3¼ lbs Packed 6 in case, ship. wt. 28 lbs

No. GS-25 . K.C.-O.C. Net ea 1 K X $7.50



POWER SCOPE, Daisy. 2-Power magnifying telescope sight for BB guns. Has vertical and lateral adjustment; ready and easy to attach. Fits any Daisy air rifle except single shot. Packed 10 in a carton, ship. wt. 9 lbs.

No. GS-300...K.C.-O.C. Net ea YUO $1.98

GUN AND SCOPE, Daisy No. 111 gun and No. 300 Scope.

No. GS-311 . . . . . K.C.-O.C. Net each
. . . . . I U K $7.95

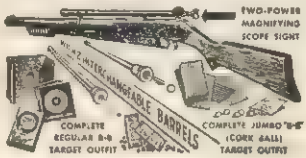
BB SHOT, Daisy. Daisy Bull's Eye Penny Pack. 500—1 cent cellophane packs on a continuous paper strip---tear off any amount from one penny up. **Packed in a dispenser package, ship. wt. 10 lbs.**

No. GS-500BB . . K.C.-O.C. Net pkg. U O J

BB SHOT, Daisy Bull's Eye air rifle shot, copper coated.

Packed in Giant Cellophane Pouches containing 176 BB Shot. 100 pouches in a case, wt. 14½ lbs.

K.C.-O.C. Net Case
No. GS-700. . . . . U O J $0.05 ea.



TARGET OUTFIT, Daisy. Two-way Target outfit with convertible pump gun shoots regular steel BB shot and new elastic big shot. Famous Daisy pump gun with interchangeable barrels; one shoots BB shot, the other shoots new elastic "Big Shot". Shooting Manual and scope dope. Complete with 2 power scope mounted on gun, 2 different sets of targets, 2 different kinds of ammunition. **Packed complete in one carton, ship. wt. 7 lbs.**

No. GS-325 . . . . . K.C.-O.C. Net each
. . . . . J U K $10.95

AIR RIFLE SHOT, Peerless. Peerless Lion Brand copper clad steel BB Shot. Approx. 75 shot in a tube, **300 tubes to the carton, ship. wt. 22 lbs.**

No. GS-PARS . K.C.-O.C. Net carton Y K L K

AIR PISTOL OUTFIT, Daisy Targeteer. The original Daisy fun gun For indoor target shooting Big, 10 inch well balanced air pistol shoots accurately up to 12 ft. Packed complete with 500 special calibre .118 shot, paper targets, and two spinning "birdie" targets. Carton in which it is packed is used for a backstop.

No. GS-118...O.C. Net each Y C J $2.98

DAISY TARGETTE. Complete target practice outfit-the new indoor sport for boys and girls. Includes plastic gallery with spinning targets. 10-inch chrome plated Daisy air pistol, and 800 rounds of tiny BB ammunition. Slot in gallery holds pistol. Legs hold shot cans. Individually packed 10 in a carton, wt. 22 lbs.

No. GS-320.K.C.-O.C. Net each U E J $5.50

TARGETEER SHOT, Daisy .118 calibre. (Tiny BBs). For use with Daisy Targeteer pistol. Packed 500 shot in a tube. Standard case of 50 tubes weighs 8½ lbs

K.C.-O.C. Net Case
No. GS-118S. . . . . E X J $10.00

Look at NOMA for Easter!

Look for this full-color, full-page advertisement which will appear in

Look magazine March 13th Issue reaching over 18,000,000 readers

Just in time for the Easter parade that comes to your toy department looking for surprises! And nothing could surprise—or delight—more than NOMA, the EFFANBEE electronic talking doll who laughs, sings, talks and prays in a real human voice! Order now!. Stock up! Feature, display and cash in on the most widely promoted doll in the history of the industry!

EFFANBEE DURABLE DOLLS

CLIP THIS COUPON—Place Your Order Today!

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DOLL CO.
200 FIFTH AVENUE, N. Y. 10, N. Y.
. . . maker of famous Dy-Dee Dolls
. . . a division of NOMA Electric Corp.
makers of world-famous NOMA lights.

EFFANBEE DOLL CO., Inc.
200 FIFTH AVE • NEW YORK 10, N. Y.

Date_____

Please ship us via_____

_____ doz #2495 NOMA, the Effanbee Electronic Talking Doll @ $14.95 each

Store Name _____

Address _____

City _____ Zone _____ State _____

Buyers Signature_____ Dept. _____

☐ I am interested in your merchandising aids Please send full information.

Woolnough

ANIMALS

1951
What It Assures You At
WOOLNOUGH

Discriminating buyers who buy WOOLNOUGH ANIMALS know from experience that they have always received the maximum in both materials and workmanship.

Regardless of future uncertainties, there will be no uncertainty of your assurance that the WOOLNOUGH ANIMALS you order this year will, as always, be perfect examples of artistry in plush. And, of course, they'll be priced *right*—throughout 1951. WOOLNOUGH has never tolerated inferior substitutes. If a particular material should be unavailable, the item will be discontinued. When your WOOLNOUGH order is delivered, it will be exactly what you bought.

On Display Are

Wild Animals
Cuddly Animals
Sleepy Animals
Domestic Animals
Soft Stuffed Animals
Mother and Baby Sets
Musical Novelties

●

Visit Our Showroom and let your own eyes convince you that for Life-Like Design and Superior Workmanship WOOLNOUGH is tops.

F. W. WOOLNOUGH CO., Inc.

CREATORS OF MASTERPIECES IN PLUSH SINCE 1907

200 FIFTH AVE. · ROOM 555 · NEW YORK 10, N. Y.

A Word From "Mac" Luttinger—

The selling agency of FRIEDLAND and LUTTINGER, despite the great loss and sudden passing of George Friedland, will continue to serve its many buying friends in the East and Middle West territories with the following diversified lines:

- GLAMOUR DOLL CO. *Vinyl-Latex-Composition Dolls*
- NATIONAL METAL PRODUCTS CO. *Metal Toys*
- DUCHESS DOLLS CORP. *Miniature Costume Dolls*
- GREYSHAW, INC. *Plastic Toys & Novelties*
- J. P. T. STUFFED TOY CO. *Plush Animals*
- GOODY MANUFACTURING CO. *Filipino Twirlers (& Strings), Yo Yo's*
- NEW ENGLAND TOY MFG. CO. *Fur Toys*
- MERITOY CORP. *Metal Doll Houses*

FRIEDLAND and LUTTINGER

200 FIFTH AVENUE – ROOM 356 – NEW YORK 10, N. Y.

Greyshaw INC.

No. 130-16 Tinkle Blocks

Manufacturers of

QUALITY PLASTIC TOYS and NOVELTIES

No. 700 Magic Player Piano

Two Convenient Displays:

DURING THE TOY FAIR

Permanent Display at

OUR NEW SHOWROOMS:
200 Fifth Ave., New York 10
Room 356

March 5th to 16th
HOTEL McALPIN
Rooms 945-947

Factories:

45 EAST 20th STREET, NEW YORK, N. Y. **508 STEWART AVENUE, S.W., ATLANTA, GA.**

HILLERICH & BRADSBY CO. BATS

LOUISVILLE SLUGGER BASEBALL BATS

White Autographed Baseball Bats. Natural white finish, select grade second growth white ash. Patterned after the original models of famous sluggers whose names they bear. Packed 1 doz. assorted lengths (1-33, 4-34, 5-35 and 2-36 in.) in a carton, ship. wt. 28 lbs. Six different models are guaranteed in each carton of 1 doz.

No. K.C.-O.C. Net Doz.
GS-125 ..... UKLK $3.80 ea.

Special Collegiate and Scholastic Autographed Baseball Bats. Same as No. 125 but turned a little smaller to meet requirements. Packed 1 doz. assorted lengths (1-32, 3-33, 5-34 and 3-35 in.) in a carton, ship. wt. 25 lbs. Six different models are guaranteed in each carton of 1 doz.

No. GS-125S—White finish ....
K.C.-O.C. Net Doz. UKLK $3.80 ea.

Genuine Autographed Model, Select Ash furnished in light Saddle Tan. Six different models are guaranteed in each carton of one dozen. **Packed one dozen to the carton,** 1/33", 5/34", 5/35", 1/36"; **Ship. wt. 28 lbs.**

No. GS-40 ..... K.C.-O.C. Net Dozen
..... OAXK $3.60 ea.

Special Collegiate and Scholastic Autographed Models, Select Ash furnished in light Saddle Tan. Slightly smaller dimensions, for the use of Prep school and college batters. Six different models are guaranteed in each carton of one dozen. **Packed one dozen to the carton,** 1/32", 3/33", 5/34" and 3/35"; **ship. wt. 26 lbs.**

No. GS-40S ..... K.C.-O.C. Net Doz.
..... OAXK $3.60 ea.

H. & B. BASEBALL BATS

Major League. Available in walnut brown or natural white finish. Six different popular player's names guaranteed to carton of one dozen containing the following lengths: 1—33", 4—34", 5—35", 2—35" Ship. wt. 27 lbs.

No. GS-35—Walnut brown finish.....
.. K.C.-O.C. Net Doz. OKAK $2.60 ea.

No. GS-110—Natural white finish select ash ..
K.C.-O.C. Net Doz. OUEK $2.95 ea.

Safe Hit Baseball Bat. Light brown finish. Packed 1 doz. assorted lengths (32 to 36 in.) and assorted names in a carton.

No. K.C.-O.C. Net Doz.
GS-14 ..... YIEK $1.95 ea.

Winner "Regulation" Baseball Bat. Dark brown finish. Packed 1 doz assorted lengths (32 to 36 in.), ash or hickory, in a carton, ship. wt. 28 lbs.

No. K.C.-O.C. Net Doz,
GS-90 ..... JOK $0 90 ea.

JUNIOR BASEBALL BATS

Louisville Slugger, Jr., Baseball Bat. Autographed natural white finish. Packed 1 doz. assorted lengths (31 & 32 in.), 3 of each Joe DiMaggio, Stan Musial, Johnnie Mize and Ted Williams autographs. Ship. wt. 22 lbs.

No. K.C.-O.C. Net Doz.
GS-125J ..... YIEK $1.95 ea.

Crackerjack Baseball Bat. Golden brown finish. Packed 3 dos. in a carton, all 29 in. lengths, ship. wt. 50 lbs.

No. K.C.-O.C. Net Doz.
GS-02 ..... LXK $0.55 ea.

SOFTBALL BATS

Official Louisville Slugger Softball Bat Model 12. A small barrel (2⅛ in.), with small grip—the favorite with better hitters. Black finish select hickory, with tape grip. Packed 1 doz assorted lengths (6-33 and 6-34 in.) in a carton, ship. wt. 25 lbs.

No. K.C.-O.C. Net Doz.
GS-250Y ..... OLKX $3.00 ea.

Official Louisville Slugger Softball Bat Saddle brown finish, ash or hickory, with white tape grip. Packed 1 doz. assorted lengths (31 and 32 in.) in a carton, ship. wt. 24 lbs.

No. K.C.-O.C. Net Doz.
GS-200A ..... YCOK $2.40 ea.

Official Softball Bat. Ebony finish hickory, skip white tape grip. Packed 1 doz. assorted lengths (6-33 and 6-34 in.) in a carton, ship. wt. 25 lbs

No. K.C.-O.C. Net Doz.
GS-52H ..... YXEK $1.45 ea.

Official Louisville Slugger Softball Model 12. For the consistent hitter a small barrelled bat, 2/16 inches in diameter, with straight taper to small grip. Antique Finish. Finest selection of second growth Ash and/or Hickory. Powerized. White Tape grip. **One dozen in carton, 6/33" and 6/34"; ship. wt. 20 lbs.**

No. GS-125Y ..... K.C.-O.C. Net Doz.
..... OLKX $3.00 ea.

Official Louisville Slugger Softball bat. Saddle brown finish. Assorted models of Ash, Hickory, or any hardwood of equal grade. White Tape grip. **Packed one dozen assorted models in carton, 6/33" and 6/34"; ship. wt. 24 lbs.**

No. GS-102HB ..... K.C.-O.C. Net Doz.
..... YCOK $2.40 ea.

BATRITE BASEBALL BATS

Batrite Baseball Bat, Natural white finish, black lettering. **Packed one dozen assorted bats to carton,** 1/33", 5/34", 5/35", and 1/36" **to the dozen, ship. wt. 28 lbs.**

No. GS-WTA ..... K.C.-O.C. Net each
..... OCI $3.85

Batrite Baseball Bat, Light golden finish, black lettering. **Packed one dozen assorted bats to carton,** 1/33", 5/34", 5/35" and 1/36" **to the dozen, ship. wt. 28 lbs.**

No. GS-WA ..... K.C.-O.C.Net each
..... OJI $3.60

Hanna Bats, Major League. Assortment of player styles, in assorted lengths, 32" to 36", and in assorted regular and special sizes. Antique grey with black lettering. **Packed one dozen to carton, ship. wt. 28 lbs.**

No. GS-15 ..... K.C.-O.C. Net each
..... OXI $3.00

Hanna Bats, World Series Assorted player styles in Natural finish with black lettering. **Packed one dozen to the carton** with assorted lengths 32" to 36" inclusive, and in assorted regular and special sizes. **Ship. wt. 27 lbs.**

No. GS-20 ..... K.C.-O.C. Net each
..... OYI $2.75

Hanna Bats, Professional. Assorted player styles. Lengths assorted 32" to 36", and in assorted regular and special sizes. Light tan finish, with gold lettering. **Packed one dozen to the carton, ship. wt. 28 lbs.**

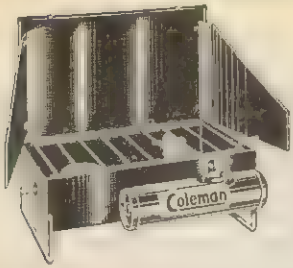
No. GS-18 ..... K.C.-O.C. Net each
..... OKX $2.55

Hanna Bats, Scholastic. Assorted player styles. Lengths 32" to 36", and assorted regular and special sizes. Golden finish, with black lettering. **Packed one dozen to the carton, ship. wt. 28 lbs.**

No. GS-25 ..... K.C.-O.C. Net each
..... YEK $2.10

BAT RACK and Display Stand. Holds 32 base ball bats, of all sizes, in suspended position. Chrome finish upright. Weighted base; slotted plywood top of extra heavy stock, natural varnished finish. Ship. wt. 20 lbs.

No. GS-BB—Baseball Bat Rack.....
..... K.C.-O.C. Net each YLKX



CAMP STOVES, Coleman. Instant lighting, folding camp stoves, make and burn their own gas from white gasoline. Windproof burners are instantly regulated to any heat desired. Removable rust-proof fuel tank—easy to fill, with built-in pump and hand operated filler plug. Made with hinged steel wire grates, folding windshield and legs. Finish—body of forest green baked enamel; tank in brown lacquer finish. Stainless steel burner 3½ in. rings; pressed steel manifolds.

MODEL 425

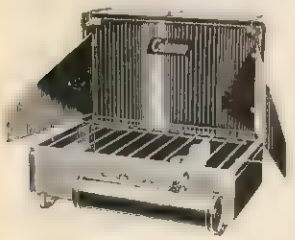
No.SZ-425—Two burners, each 3½ in. Fitted with 2½ pint tank. Size folded 17 5/8x12x4¾ in. Ship. wt. 13 lbs.

K.C.-O.C. Net each
. . . . . AUJ $11.95

MODEL 426

No.SZ-426—Three burner, 3½ pint tank. Rounded corners. New tray type slide-away legs. Size folded 28 5/8x14x6½ in. Ship. wt. 25 lbs.

K.C.-O.C. Net each
. . . . . YIJI $22.50



MODEL 413D

No.SZ-413D—Two burners, each 3½ in. set 12 in. apart on centers. Size folded 22½x13 3/8x5¼ in. Ship. wt. 18 lbs.

K.C.-O.C. Net each
. . . . . YXYJ $15.95

CAMP STOVE STANDS, Coleman. Adds convenient cooking height to camp stoves. All steel construction. Fits all Coleman and most all other makes. Folds completely to size 2½x2x26½ in. Ship. wt. 3 lbs.

K.C.-O.C. Net each
No.SZ-10 . . . . . UYO $4.45

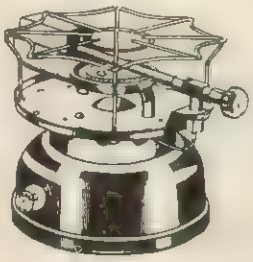
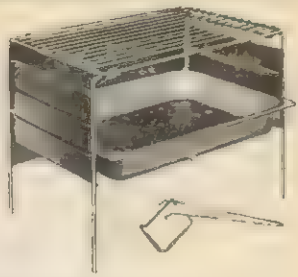


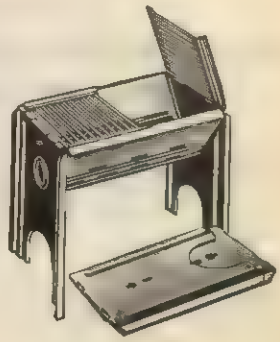
TABLE STOVES, Coleman Speedmaster. A one burner "all purpose" stove. For camps, cottages, laboratories, general household use, lunch counters, restaurants. An ideal emergency stove when other fuels fail. Lights instantly. Makes its own gas. Regulates instantly. Wind proof, quiet, odorless. Banda-Blu burner. Safe. Can't be filled when lighted, can't spill fuel when tipped over. Speedy, boils a pint of water in 2¼ minutes. Large, long lasting generator, easily cleaned and replaced. Automatic-tip-cleaning needle. Built-in pump, positive shut-off valve. Brass fuel fount, heavily nickel plated, rust resisting. Size over-all, height 7 inches, width 10½ inches. Ship. wt. each 5¼ lbs.

K.C.-O.C. each
No.SZ-500 . . . . . AUJ $11.95



PICNIC STOVE, Hi-Lo. Fire pan of heavy steel. Close mesh steel wire grid. Self bracing legs. Wind guards on three sides. Makes picnic cooking easy and fast. Can be used for broiling on the steel mesh grid; for frying without pans with windguard screen used as flat cooking surface. Gives 4-way heat—Warm, Hot, Hotter and Hottest—from big, vented fire pan that burns wood, charcoal or coal. Detachable handle for fire pan makes heat adjustment easy and safe. Over-all dimensions are 18"x11½"x13" high. Folds compact for carrying in a handy carrying case. Individually packed, ship. wt. 8 lbs.

No. GS-HW1300 . . . . . K.C.-O.C. Net each
. . . . . OAK $4.17



CHARCOAL GRILL, Woodland. Folding camp grill designed for charcoal fuel. Made of Armco aluminized steel—a new non-rusting metal in natural gray finish. Assembled in one piece with out bolts or screws—no clamps for any section to work loose. Split grate swings into position, and has side stops. Size set up: grill area 10½x18 in., height 17½ in., folds up to only 19x12x2 in Packed 1 in a carton, wt 10 lbs.

No. GS-390 K.C.-O.C. Net ea 1 OK $7.98

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Effin' that ain't the purtiest round-up of slick-lined vee-locipedes an' young-uns bikes a buckeroo ever seed. And they got some mighty fancy doll carriages and strollers fur the gals, too . . .

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STEVENS RIFLES

Stevens Model 15 Single Shot Rifle . . . .22 Caliber Rim Fire . . . Bolt Action . . . Takedown. Round tapered takedown barrel, length 22 in. Barrel and receiver in one piece. Chambered for .22 long rifle, .22 long and .22 short either high speed or regular cartridges. The bolt action rebounding safety lock prevents accidental discharge. Positive ejector and double strength extractor. Walnut finish stock with full pistol grip. Gold bead front sight and sporting rear sight with elevation adjustment. Overall length 37 in. Weight 4 lbs.

K.C.-O.C. Net each

No. GS-15..... YXUK $14.15

Stevens Model 86 Repeating Rifle . . . .22 Caliber Rim Fire . . . Bolt Action . . . Takedown Tubular Magazine. 24-inch round tapered barrel with crowned muzzle, chambered for .22 long rifle and .22 short regular or high speed cartridges. The tubular magazine holds fifteen .22 long rifle, seventeen .22 long or twenty-one .22 shorts. Self-cocking bolt action with independent safety; plated bolt and trigger Full size oval military style walnut finish stock with full pistol grip and hard composition butt plate. Gold bead front and sporting rear sight with elevation adjustment. Overall length 43½ in. Weight 6 lbs.

K.C.-O.C. Net each

No. GS-86..... OXUI $27.95

Stevens Model 84 Repeating Rifle . . . .22 Caliber . . . Rim Fire . . . Bolt Action . . . Takedown . . . Clip Magazine. 24-inch tapered round barrel with crowned muzzle, chambered for .22 long rifle, .22 long and .22 short regular or high speed cartridges 5-shot detachable clip magazine. Self-cocking bolt action with independent safety; plated bolt and trigger. Full size oval military style stock, walnut finish; full pistol grip; hard composition butt plate. Overall length 43½ in. Weight 6 lbs.

No. GS-84—Open rear and bead front sight.. .. . . K.C.-O.C. Net each YCUI $24.25

No. GS-84S—Fitted with 150 Micro Peep sigh .. K.C.-O.C. Net each OXOK $27.7

Stevens Model 87 Automatic Repeating Rifle . . . .22 Caliber Rim Fire . . . Takedown . . . Tubular Magazine. Automatic action with independent safety. Trigger must be pulled on for each shot. Pressing cross bolt to the left locks action for use as a single shot or repeater. Easily dismantled without tools. Round tapered barrel; length 24 in. Magazine holds fifteen .23 long rifle when used as an automatic rifle. As a repeater, it holds fifteen .22 long rifle, seventeen .22 long or twenty-one .22 short regular or high speed cartridges. Full size walnut finish stock in oval military style with full pistol grip and hard composition butt plate. Gold bead front sight and sporting rear sight with elevation adjustment. Overall length 43 in. Weight 6 lbs.

K.C.-O.C. Net each

No. GS-87 ..... OJXK $34.65

Stevens Model 85 Automatic Repeating Rifle .22 Caliber Rim Fire----Takedown----Clip Magazine. 24 inch barrel, round, tapered takedown, crowned muzzle, Chambered for .22 Long Rifle regular or high speed cartridges with lubricated bullets. Also can be used as hand operated repeater or single shot using .22 Long. Rifle, .22 Long or .22 Short Cartridges. Automatic action with independent safety. Trigger must be pulled once for each shot. Special steel used in high shock parts. Action easily disassembled without tools for cleaning. Convenient independent safety. One piece full pistol grip stock and large forestock, American Walnut Finish. Composition butt plate. Metal Bead front sight and open Middle sight with elevator. Receiver drilled and tapped for Savage No. 150 Micro Peep Sight. Wt. 6 lbs.

K.C.-O.C. Net each

No.GS-85 . . . . . OIKX $31.2

HUSQVARNA & WINCHESTER RIFLES

Husqvarna Hi-Power Rifles are made in Sweden by a manufacturer famous in gunmaking since 1689. A precision instrument, made by old world craftsmen from finest Swedish Steel..30-06 and .270 Win. Caliber.. "Mauser" type-5 shot action. Stock-"Artic Beach", walnut finished, checkered pistol grip, checkered semi-beaver foregrip. Wt. 7¾ lbs., overall length 44¾", 1" sling swivels. Sights-Hooded ramp, gold post front. Adjustable open rear. Drilled and tapped for standard receiver sights.

	K.C.-O.C. Net each	(O.P.)
No. GS-644—.270 Win GS-647—.30-06	AOYI	109.50
GS-645—New cal. 220 Swift	AOYI	109.50

Winchester Model 43 Standard Repeating Rifle.. .choice of calibers ...box magazine ....24 inch round tapered barrel with crowned muzzle; matted front sight ramp. Winchester bolt action with Speed lock and twin extractors. Receiver drilled for Lyman 57A sight. Positive side lever safety. Flush box magazine. Full pistol grip stock and fore-end of genuine walnut with 1 inch swivel bows attached; length of pull 13½ in.; drop at comb 1⅝ in ; drop at heel 2½ in. Equipped with 103 bead front sight with removable cover and 22 open sporting rear sight. Overall length 42½ in. Wt. 6 lbs.

No. GS-4301C—218 Bee. Cap. 3 cartridges.
No. GS-4303C—22 Hornet. Cap. 3 cartridges.

K.C.-O.C. Net each **LJEK $63.45**

Winchester Model 70 Sporting Rifle..... 5 Shot.....Center fire.....With Winchester Speed Lock..... Standard Rifle.....Regular Sights. Round tapered 24 inch barrel of Winchester proof-steel. Action—Bolt of up-turn, pull back Mauser type; firing pin cocks on opening lift of bolt; bolt instantly removable. Three position safety. Staggered box type magazine with floor plate hinged at front for convenient access for emptying or cleaning. Sporting type pistol grip stock of genuine walnut; full well shaped fore-end; grip and fore-end checkered: fitted with 1 inch swivels and checkered steel butt plate; length of pull 13½ in., drop at heel 2⅛ in. Bead front sight on ramp base with sight cover; Winchester 22G open sporting rear sight with round top. Weight 8¼ lbs.

GS-G7001C—22 Hornet. 24" bbl.
GS-G7003C— 270 Winchester. 24" bbl.
GS-G7004C—30-06 Sprinfield. 24" bbl.
GS-G7006C—257 Roberts. 24" bbl.
GS-G7007C—375 H & H Magnum. 25" bbl.
GS-G7008C—220 Swift. 26" bbl.
GS-G7009C—300 H & H Magnum. 26" bbl.
* Has recoil pad & Lyman 6 W folding sight.

K.C.-O.C. Net each **CLCK $126.50**

Winchester Model 94 Repeating Carbine.. 7 Shot ...Choice of Calibers... Solid Frame ....Lever Action. 20 inch round barrel. Has the famous Winchester lever action—sturdy and dependable. Tubular type magazine, capacity 6-shot—with one cartridge in chamber makes gun a 7-shot repeater. Bead front sight on ramp, forged as integral part of barrel, with sight cover. Winchester 22K open sporting rear sight with No. 1A elevator. Straight grip shotgun butt type stock and forearm of American walnut. Steel butt plate. Weight 6¼ lbs.

No. GS-G9412C—30-30 Winchester
No. GS-G9423C—32 Winchester
K.C.-O.C. Net each **ILYI $72.15**

WINCHESTER MODEL 64 REPEATING Rifle Center Fire----Lever Action----Solid Frame. 24 in. round, tapered barrel. Tubular type two thirds magazine, capacity, 5 cartridges plus one in the chamber makes gun a 6-shot repeater. Strong, sturdy and dependable famous Winchester lever action. Shotgun butt style walnut stock with pistol grip and semi-beavertail forearm. Steel butt plate. Bead front sight on ramp with sight cover. Winchester 22H open sporting rear sight. Wt. 7 lbs.

No. GS-G6402C—30-30 Winchester
K.C.-O.C. Net each **JYAI $95.80**

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OFFERS 3 EXCITING GAMES in One Box

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re's the basic Slink'Em Game. Slinkys
p-flop down runway, land on plus or
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or children and grown-ups, too.

Game includes sturdy fibreboard runway, game board overlay, two junior-size Slinkys, 3 "base-runners"—and emery board to keep runway from getting slippery with use. Attractively packaged.

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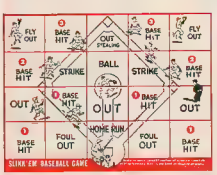
Slinky scores strikes, balls, hits, etc., by landing in squares on baseball diamond overlay. Close competition adds to fun and novelty.



3 SLINK'EM BIG GAME HUNT

Marksmanship pays off in points as players aim Slinky at wild "critters" on target-like overlay.

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In durable colored plastic with 50 balls of genuine Leaf Rain-Blo Bubble Gum.

Extra Sales, Extra Profits
with Leaf Official Refills! Box of 60 Balls, Suggested Retail Price. **25¢**

Here's a new action toy with Super SALES APPEAL! It's irresistible! It's unequalled by any toy or candy novelty! The Basket Ball Bubble Gum Bank appeals to every basic interest of kids . . . interest in sports, in games of skill, in competition.

Simple to operate . . . insert penny, nickel or dime which releases ball above shooting spring. Then, shoot ball in direction of basket. Score a hit and out comes gum. Ball will return until basket is scored.

Created, Designed, Exclusively Manufactured by

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For over 25 years the leading producer of ball gum for the vending trade.

SEE OTHER SIDE FOR MORE ABOUT THIS NEW EXCITING GAME

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IN goes the coin for future saving!
OUT comes bubble gum for your thrill.
Teach them to keep and give with cheerful gums. So exciting—so simple! Just drop in a penny—and the banker and out comes a big Leaf Rain-Blo Bubble gum
REFILLS... Box of 60 Bubble Gum Balls. As many fine at this action toy. You can refill as often as necessary. Use one and one again
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Newspaper Mats and Glossies!
ORDER TODAY!
A Fascinating Action Toy!
BASKET BALL BUBBLE GUM BANK...
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A USEFUL BANK...
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We Guarantee

The gum furnished with the Basket Ball Bubble Gum Bank is genuine Leaf Rain-Blo Ball Gum.

To insure best operation, continue using Leaf's official Basket Ball Bubble Gum Bank refills available at all leading stores

BASKET BALL BUBBLE GUM BANK.....

A new exciting toy made of durable colored plastic. Simple to operate. Metal Key unlocks back plate for easy refilling or to remove pennies, nickels and dimes.

Basket Ball Bubble Gum Bank is the outstanding toy of all time. Order now for prompt delivery

NO. 512 BASKET BALL BUBBLE GUM BANK Individually packed in attractive carton including Key and 50 genuine Leaf Rain-Blo Gum Balls. Packed 24 Banks to shipping container. (Shipping weight 28½ lbs.)

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NO. 513 LEAF OFFICIAL REFILL BOX with cellophane window contains 60 genuine Rain-Blo Bubble Gum Balls. Designed to retail at 25¢ per box. Packed 96 boxes to shipping container. (Shipping weight 29½ lbs.)

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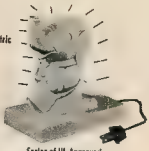
Series of Electric Rocker Toys



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Series of Rotating Musical Banks

Here they are!

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WE'VE DONE IT AGAIN—this time with 51 cleverly different numbers. Our successful electric animal novelties and toys are back with a host of new friends—all of them heading for the greatest year yet!

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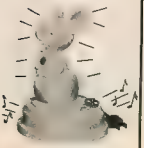
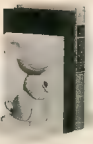


Series of UL Approved Musical Nite Lites

Animal Nite Lite



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Series of Animal Bank Nite Lites

Series of Doll Nite Lites on Colorful Drums

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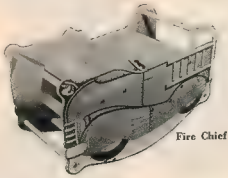

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		K.C. Net Each	
No.RE-1251	–Ivory case.		
No.RE-1250	–Walnut case		
	1 to 3	OLXJ	$34.95
	4, up	OUXK	

TABLE LAMP-RADIO, Lumitone. The original and the one and only Lumitone, combining fine radio reception and modern 3-way lighting Styled like a dream in beautiful cream color plastic with a matching base in which the radio dial is mounted. Has an 18 inch taffeta shade, trimmed with gold piping. Furnished complete with 50-100-150 watt 3-way switch and opal plastic reflector bowl providing eye-saving illumination. The radio feature an advanced Superheterodyne circuit using 12SA7, 12SK7, 12SQ7, and 50L6GT tubes, with a 35Z5GT rectifier—plus a built-in Air Magnet that eliminates need for aerial or ground wires. A powerful permanent magnet speaker, located near top of lamp base, assures clear bell-like tones and undistorted reception. Complete broadcast band coverage—535 to 1720 K.C. Operates either on 110-120 volts, 50-60 cycles, A. C. or D. C. Overall height 21⅝ in. Base diam. 5½ in. Ship. wt. 13 lbs.

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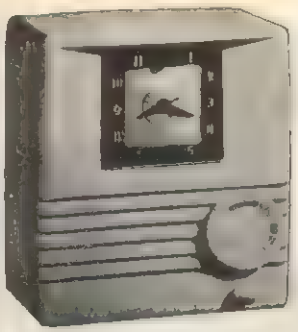
No.RE-1260	1 to 3	UOYJ	$45.95
	4, up	UKEU	



MITCHELL CLOCK RADIO, Tone-Alarm. Wake up to music with the MITCHELL "Tone Alarm"—just set the alarm before retiring—"Tone Alarm" wakes you at exactly the right time with the gay music of your favorite morning program. If you doze again, automatic buzzer goes into action. Also has outlet for electric appliances—shuts off sunlamps, coffee makers, etc.,—it's the perfect self-timer for hundreds of uses. Genuine Telechron clock has sweep-second hand, large clear numerals. "Tone Alarm" incorporates an advanced superheterodyne radio for lifelike, "big-set" performance. Tunes full 540-1620 kc AM bank. Has a highly sensitive built-in "Air Magnet"—no aerial or ground needed. Easy-to-read dial for quick tuning. Latest type PM dynamic speaker. "Tone Alarm" is a lifetime package of pleasure and convenience—ideal for any room in the home. In choice of smooth Ivory or figured Mahogany plastic. Size: 9¼" high, 8 1/8" wide, 5" deep. For 110-125 volt 60 cycle A.C. Packed 1 to a carton; shipping weight, 7 lbs.

No.		K.C. Net each List	
RE-1267–Ivory	1 or 2	OJCJ	$39.95
RE-1268–Mahogany	3, up	OEXU	

PANORAMA INDOOR, Television Antenna. Unconditional Lifetime Guarantee. Satin-finish Mahogany plastic base harmonizes perfectly with any room in the home. 3-section, triple-chrome plated brass telescopic dipoles can be adjusted from 15 to 41 inches for easy orientation. Weighted "Tip-Proof" Base prevents tipping of antenna at any dipole setting. Unique design of base insures secure tension of dipoles at any position. Built-in felt cushion protects finest furniture. Complete with 300 ohm twin lead. Packed 20 in carton, ship. wt. lbs.

		K.C. Net Each	
No.RE-TA135	1 to 9	LYJ	$6.95
	10 to 99	ULJ	
	100, up	UYO	

INDOOR ANTENNA, For Television Sets. Attractive, heavily weighted base with three section masts of chrome plated seamless brass tube extending to 45 inches. Covers all TV and FM channels. Includes lead cable with terminals. Packed 20 in carton, ship. wt. lbs.

		K.C.-O.C. Net Each	
No.RE-VT3	1 to 99	OEJ	$4.45
	100, up	OLK	

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No. RE-D3—Steel Cutting Needles K.C.-O.C. display of 48 ELA $12.00

No. RE-D2—Stellite Cutting Needles K.C.-O.C. display of 12 CJO 18.00

Paper Discs K.C.-O.C.

No. RE-A26½—6½"	pkge. of 6	LK	$0.60
No. RE-A28—8"	pkge. of 6	EJ	$1.00

Light Weight Aluminum Discs—K.C.-O.C.

No. RE-D26½—6½ in.	pkg. of 6	JI	1.25
No. RE-D28—8 in.	pkg. of 6	YKI	1.75
No. RE-D210—10 in.	pkg. of 6	YIK	2.50

Heavy Weight Aluminum Discs—K.C.-O.C.

No. RE-J28—8 in.	each	OY½	.40
No. RE-J210—10 in.	each	UO¼	.60

MITCHELL TELEVISION SETS

MITCHELL TELEVISION SETS, Console Models. Now you can enjoy "Living Image" television, exactly as telecast . . as real as life itself on the new 16-inch rectangular screen. You see all the picture with "Studio View" realism--rich in contrast, crisp and sharp--kept absolutely steady by the automatic Synchro-Hold circuit feature. Automatic Gain Control assures photographic realism under all viewing conditions. Tuning is simplicity itself with the 12-position All-Channel Selector that brings both picture and sound in right "on the beam"--automatically synchronized. The built-in Magna-Tenna does away with awkward antenna installations in most locations. And for your complete enjoyment, the MITCHELL "Living Image" picture is matched by a quality of tone so realistic, so true, you'll feel you're hearing as well as seeing the program right in the studio. Your Mitchell Television receiver is housed in a custom-grade cabinet, using only the finest woods. Connection for attaching record changer or phonograph player. Chassis incorporates twenty tubes, including Kinescope and two rectifiers. Console measures 36" high, 22" wide and 19½" deep. Available in Blonde or Mahogany finish—hand-rubbed to smooth, lustrous perfection. **Ship. wt. each 110 lbs.**

	K.C.-O.C. Net Each
No. RE-T16M—Mahogany) RE-T16B--Blonde)	$303.95
Non-Contract Dealer . . .	OULKX
Contract Dealer	OYOJX

Federal Excise Tax and 1 year parts warranty $26.09

TERMS - Net

SONORA TELEVISION SETS

MODEL 302, Micro-Sharp 12½" Table Model. A matchless Television receiver with big 12½" direct-view picture tube. Splendid picture realism is assured by the "Micro-Sharp" circuit feature which develops high definition and faithful image reproduction. Effective lock-in results in a picture of unusual stability for comfortable and enjoyable viewing. Features efficient built-in antenna--eliminates need for outside aerial in favorable locations. Receiver is easy to tune; covers all U.S. television channels. FM audio circuit is of advanced design, coupled with special new PM dynamic speaker to develop thrilling "Clear as a Bell" tone. The receiver is presented in an attractive table model cabinet, beautifully finished in mahogany. Size: 16¼" wide, 18" high, 19 3/8" deep. **Ship. wt. 75 lbs.**

	K.C.-O.C. Net Each
No. RE-TV302	
Non-Contract Dealer	YEXEK $219.50
Contract Dealer	YIYLI

All prices **PLUS Tax — $11.45**

TELEVISION TABLE, Revolving Top. Universal for all table model sets. Ball bearing center top, 20½x20½ in. Mahogany finished wood; tapered square legs. Each table packed in a carton. **Ship. wt. 28 lbs**

	K.C.-O.C. Net Each
No. RE-TT100	YUOI $18.95

MODEL 305, Micro-Sharp 16" Rectangular Tube Table Model. Features the latest 16" rectangular black picture tube for Television at its finest. Rectangular viewing area presents all the picture just as the studio camera sees it. Black filter front provides rich contrast—for enjoyable viewing even in daylight. Definition is sharp and crisp, with each image held absolutely steady by the automatic lock-in circuit. Automatic Gain Control assures photographic realism. Tuning is delightfully easy with the continuous all-channel selector which brings both picture and sound in automatically synchronized. New built-in antenna eliminates need for aerial in favorable receiving locations. The "Micro-Sharp" picture is matched by realistic "Clear as a Bell" tone developed by the advanced FM audio circuit and matched powerful PM dynamic speaker. This "Clear as Crystal" Sonora masterpiece is fittingly presented in a tasteful table model cabinet, carefully finished in mahogany. Size: 10" wide, 20" high, 19" deep. **Ship. wt. 97 lbs.**

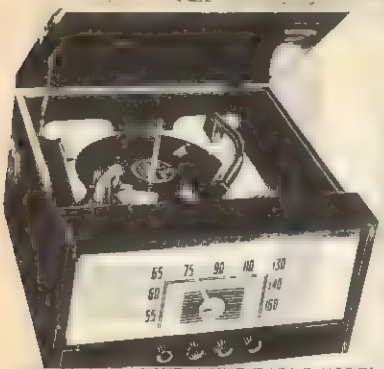
	K.C.-O.C. Net Each
No. RE-TV305	
Non-Contract Dealer	OYCLI $289.00
Contract Dealer	YCXIK

All Prices **PLUS Tax — $14.95**

TELEVISION TABLE, The new Gateway. Free revolving top, 22"x22", beautiful Mahogany finish that will not bend or warp. Heat proof. Light weight, easy to assemble. Height of table 24½". Enhances the appearance of your television set. **Comes knocked down in carton 26x23x3½". Ship. wt. 13½ lbs.**

	K.C.-O.C. Net each
No. RE-51-9	
. . . . .	CJI $14.95

SONORA TABLE MODEL RADIOS



MODEL 330. AC SUPERHET TABLE MODEL RADIO-PHONOGRAPH. It's distinctive, it's "Clear as a Bell," it's superb for complete home entertainment. Advanced Superheterodyne radio tunes all standard broadcast, 535-1620 kc. Includes built-in "Sonorascope" loop, large Alnico Pm dynamic speaker, big easy-tune dial, variable tuning control, automatic volume control. Phono equipment includes latest gentle-quick-action 3-speed Automatic Changer. Plays records of all speeds and sizes: 78, 33 1/3 and 45 r.p.m.; 12", 10" and 7". Magnificently presented in a distinctive table model cabinet featuring choice mahogany veneers. **5 tube.** Size: 17 7/8" wide, 18" deep, 10" high. **Ship. wt. 35 lbs.**

No. RE-330	K.C.-O.C. each	
Non-Contract Dealer	AOLE	$99.95
*Contract Dealer	JLCE	
*(Lots of 3)	ECXE	

MODEL 316. AC-DC SUPERHET IVORY PLASTIC TABLE MODEL. A superior new table model, distinguished for its modern styling and "Clear as a Bell" performance. Ideal for town or country. Tunes all standard broadcast programs—535 to 1620 kc. Features high-efficiency "Sonorascope" loop—no aerial or ground required; full-vision plastic dial for easy tuning; Alnico-5 PM dynamic speaker of latest design; automatic volume control. Cabinet is of refreshingly new design, plastic-molded in smooth, attractive lines. In beautiful ivory finish. **5 tube.** Size: 8¾" wide, 5¾" high, 4½" deep. **Ship. wt. 5½ lbs.**

No. RE-316—Ivory	K.C.-O.C. each	
Non-Contract Dealer	OKIA	$24.95
*Contract Dealer	YAJY	
*(Lots of 3)	YJLE	

MODEL 317. As above, in rich Walnut finish.

No. RE-317—Walnut	K.C.-O.C. each	
Non-Contract Dealer	YACU	$22.95
*Contract Dealer	YJOY	
*(Lots of 3)	YEKE	

MODEL 314. AC-DC SUPERHET IVORY PLASTIC TABLE MODEL. Outstanding for more powerful and sensitive table model reception. Tunes 535 to 1620 kc for complete coverage of the standard broadcast band. Includes built-in "Sonorascope" loop—no aerial or ground needed (also equipped with provision for external antenna). Powerful Alnico-5 PM dynamic speaker develops "Clear as a Bell" tone quality. Unique full-vision dial is easy to tune. Includes automatic volume control. Beautifully housed in a striking plastic-molded cabinet, with softly-colored flocked screen front and dial; has gleaming gold tuning indicator. In beautiful ivory finish. **6 tube.** Size: 10¾" wide, 7" high, 5¼" deep. **Ship. wt. 6 lbs.**

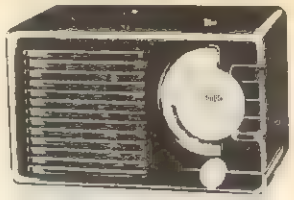
No. RE-314—Ivory	K.C.-O.C. each	
Non-Contract Dealer	OEUE	$31.95
*Contract Dealer	OUCE	
*(Lots of 3)	OXUE	

MODEL 315. As above, in luxurious Walnut finish.

No. RE-315—Walnut	K.C.-O.C. each	
Non-Contract Dealer	OLJY	$29.95
*Contract Dealer	OXLE	
*(Lots of 3)	OKCE	

MODEL 102. 3-way "CAVALIER" PERSONAL PORTABLE. To see it and hear it is to want it—it's the big **SONORA** hit in little portables. Operates from self-contained batteries, from 110 volts AC or from 110 volts DC. Tunes 535—1620 KC full standard broadcast band. Has built-in "Sonorascope" loop—no aerial or ground needed; powerful Alnico PM speaker automatic volume control; large slide-rule dial with big gold numerals, Underwriters' approved. Presented in a gem of a carrying case, smartly styled in two-tone brown and beige finish; with practical carrying handle and inset tuning knobs. **5 tube.** Size: only 9½" wide, 7¼" high, 5 1/8" deep. **Ship. wt. (less batteries), 5 lbs.**

No. RE-102	K.C.-O.C. each	
Non-Contract Dealer	OUJI	$29.95
*Contract Dealer	OYEK	
*(Lots of 3)	OKEI	



MODEL 299. AC-DC SUPERHET WALNUT PLASTIC TABLE MODEL. Ideal for metropolitan areas. A price-leader among small table models, but a "big-time" performer with surprising tonal quality and receiving power. Tunes 535 to 1620 kc for full coverage of the standard broadcast band. Includes efficient built-in "Sonorascope" loop—no aerial or ground required. Features powerful Alnico PM dynamic speaker; full-vision plastic dial for easy tuning; automatic volume control. Smart new plastic molded cabinet of neat, clean design. In handsome walnut finish. **4 tube.** Size: 8" wide, 5¾" deep, 4 7/8" high. **Ship. wt. 4½ lbs.**

No. RE-299—Walnut	K.C.-O.C. each	
Non-Contract Dealer	(O.P.)	
*Contract Dealer		
*(Lots of 3)		

MODEL 300. As above, in smooth Ivory finish.

No. RE-300—Ivory	K.C.-O.C. each	
Non-Contract Dealer	(O.P.)	
*Contract Dealer		
*(Lots of 3)		

MODEL 240. FM-AM IVORY PLASTIC TABLE MODEL. Advanced Superheterodyne radio tuning all standard AM broadcasts plus static free AM in all its natural glowing tone. A triumph of "Clear as a Bell" tone quality. Tunes 535-1620 kc standard AM broadcast, and 87-109 MC frequency modulation. Features include: variable tone control; extra-large dynamic speaker; unique full-vision dial; automatic volume control; high-efficiency built-in "Sonorascope" loop for AM reception-attached FM antenna and provision for external di-pole. The plastic-molded cabinet in lovely Ivory is a triumphant design achievement, reflecting the finest contemporary styling. **8 tube.** Size: 14" wide, 7 3/8" deep 8½" high. **Ship. wt. 13½ lbs.**

No. RE-240—Ivory	K.C.-O.C. each	
Non-Contract Dealer		
*Contract Dealer	(O.P.)	
*(Lots of 3)		

MODEL 262. As above, in magnificent Walnut finish.

No. RE-262—Walnut	K.C.-O.C. each	
Non-Contract Dealer	IYEK	$64.95
*Contract Dealer	LECK	
*(Lots of 3)	LICK	

MOSSBERG RIFLES

Mossberg Model 144 G.I. Rifle. .22 caliber bolt action rifle—lever operated especially for the U.S War Department for small arms training. 7 shot clip repeater. Has new type receiver sight with ½ inch micrometer "click" adjustments, thumb operated safety with red and green safety buttons inlaid in stock, military bolt handle to allow mounting of telescope sight. Ramp front sight with permanently attached inserts and removable hood; 1¼ inch detachable swivels; grooved trigger; walnut stock and beavertail forearm, pistol grip and contoured steel butte plate; molded streamlined trigger guard with finger grooves. The barrel is 26 inch, round, chambered for .22 long rifle but will also handle shorts and longs. Overall length 43 in. Weight 8¾ lbs.

K.C.-O.C. Net each

No. GS- 144 — O I L K — $31.95

Mossberg Model 46M Repeating Rifle .22 Cal. .. Bolt Action.....Tubular Magazine ... Custom Type. Streamlined beauty, ruggedness and accuracy in this fully equipped rifle. 23 inch tapered barrell, chambered to shoot regular or high speed ammunition. Tubular magazine holds 22 short, 18 long or 15 long rifle cartridges. Has hooded front sight with 4 permanently attached inserts, open rear sight and Micro peep sight which swings out of way for use of open or telescope sights. Detachable swivels. Adjustable trigger pull. Safety cover plate with indicators. Streamlined molded trigger guard with finger grooves. Walnut stock with custom design cheek piece. Overall length 40 in. Wt. 7 lbs.

K.C.-O.C. Net each

No. GS-46M .. O L C I — $31.65

Mossberg Model 146B Repeating Rifle 22 Caliber .. Extra long tubular magazine holds 30 short, 23 long or 20 long rifle cartridges. 26 inch barrel is tapered and has a crowned muzzle, chambered for .22 caliber regular or high speed ammunition. New features include safety cover plate, streamlined magazine bar, grooved trigger guard and cheek piece stock. Has new type trigger guard and molded butt plate, and red and green indicator for safety. Other features are adjustable trigger pull (from 2½ to 5 lbs.) and cam action speed lock. Equipment includes detachable type swivels, ramp front sight, open rear sight and swing-out micro click peep sight. The stock is genuine walnut with husky beavertail forearm. Overall length 43¾ in., taken down 31½ in. Wt. 7 lbs.

K.C.-O.C. Net each

No. GS- 146B — O X C K — $28.95

Mossberg Model 151M Automatic Rifle. A high grade .22 caliber rifle for regular or high speed long rifle cartridges. Straight line feed with magazine holding 15 long rifle only, loading part in stock. Has all the modern streamline features originated by Mossberg, including new type stock of genuine walnut with built in cheek piece, non-breakable molded trigger guard with finger grooves and a formed steel butte plate; quick detachable swivels, new positive safety, hooded ramp front sight with 4 permanently attached inserts, open sporting rear sight and Micro click peep sight with single aperture disc. Receiver is dovetailed for telescope sight. 20 in. tapered barrel; crown muzzle. Overall length 40 in. Wt 7 lbs.

K.C.-O.C. Net each

No. GS-151M — O J E K — $34.95

Mossberg Model 151K Sporter Automatic Rifle.—15-Shot, 22 Caliber. A beautiful little automatic with open sights which makes it ideally suited for plinking and quick sighting on vermin and small game. Straight line feed through the stock. Complete action is instantly removable as a unit for cleaning without the use of tools. Handles all .22 Caliber long rifle cartridges, lubricated or dry. 24-inch round tapered barrel with crown muzzle. Mossberg ST32 rear sight and S180 front sight. Receiver is grooved with dovetail to take mount of Mossberg 4M4 4-power telescope sight. Genuine walnut stock, Monte Carlo design, with check piece. Overall length 44 in. Wt. 6 lbs.

K.C.-O.C. Net each

No. GS-151K. . . . . O I L K — $31.95

Mossberg Model 142 Carbine-Style Repeater with Hinged Fore-end.—22 Caliber 7-Shot Clip Type—Weighs only 5 lbs.—Only 37 in. overall. Mossberg's big new surprise—easy carrying and fast handling, for hunting and plinking. Hinged fore-end forms 5-inch hand grip and provisions are made to take Mossberg 4M4 telescope sight. 18-inch tapered barrel, crowned muzzle. Sturdy, streamlined plastic trigger guard. 7-shot removable clip magazine. Adjustable sling strap mounted on swivels on left side of stock. New receiver peepsight with adjustments for windage and elevation, easily turned out of way for mounting scope. Post front sight has military-type side guards. Bolt handle is of a new and exclusive Mossberg design. Monte Carlo design stock is of genuine walnut, hand rubbed finish.

K.C.-O.C. Net each

No. GS-142. . . . . Y C Y I — $23.95

MARLIN RIFLES

Marlin Model 81DL Repeater . . . .22 Caliber . . . Tubular Magazine . . . Bolt Action. New improved design with new bolt handle and on-and-off safety. 24 inch round tapered blued steel barrel with crowned muzzle and Ballard type rifling. New unique feeding mechanism of simple positive action. Plated bolt assembly and trigger. Removable bolt assembly; flush takedown screw; automatic side ejection; self cocking; self-release trigger. Magazine holds 25 short, 20 long or 18 long rifle cartridges. New military type one-piece stock with fluted comb and semi-beavertail forearm. Overall length 42½ in. Weight 6½ lbs.

No. GS-81DL—Peep rear sight, ramp front sight with hood, swivels
K.C.-O.C. Net each OIKI $32.50

No. GS-81C—Rocky Mountain rear sight, bead front sight, no swivels
K.C.-O.C. Net each OUXI $30.40

Marlin Model 80DL Repeater . . . .22 Caliber 8 Shot . . . Clip Magazine . . . Bolt Action. New trigger and Sear mechanism an exclusive Marlin feature which has gained much popularity. 24-inch round tapered blued steel barrel, crowned muzzle, Ballard type rifling, plated bolt assembly and trigger new on-and-off safety Removable bolt, automatic side ejection, self-cocking, takedown. Shoots .22 short, long and long rifle cartridges, regular or high speed. Special military type one-piece stock with fluted comb and semi-beavertail forearm, walnut finish. Overall length 42½ in. Weight 6 lbs.

No. GS-80DL—Peep rear sight, ramp front sight with hood, swivels
K.C.-O.C. Net each OYIK $27.90

No. GS-80C—Rocky Mountain rear sight, bead front sight, no swivels.
K.C.-O.C. Net each YCAK $25.80

Marlin Model 88 Autoloading Rifle . . . Tubular Magazine . . . .22 Caliber . . . Takedown More shots per load with this popular priced tubular magazine autoloading. Perfected by Marlin. Has 24-inch round tapered blued steel barrel specially treated to resist corrosion or rust and will shoot either regular or high speed cartridges without adjustment. Crowned muzzle; Ballard type rifling. Automatic side ejector and new on-and-off safety. Magazine holds 25 short, 20 long or 18 long rifle. Full pistol grip walnut stock with beavertail forearm. Equipped with open front and rear sights. Overall length 42½ in. Weight 6 lbs

K.C.-O.C. Net each
No. GS-88C..... OJUI $34.60

Marlin Model 39A Repeating Rifle . . . .22 Caliber . . . Lever Action . . . Tubular Magazine . Takedown The only takedown lever action repeater that exposes all working parts by the turning of a single hand screw. 24-inch semi-heavy round tapered blued steel barrel with Ballard type rifling; crowned muzzle. Magazine holds 25 short, 20 long or 18 long rifle .22 caliber regular or high speed cartridges. Side ejection New unbreakable coiled main and trigger springs Visible hammer. Solid top blued receiver. Full pistol grip walnut stock and semi-beavertail forearm. Equipped with ramp front sight and flat top Rocky Mountain rear sight. Overall length 41 in. Weight 6½ lbs.

K.C.-O.C. Net each
No. GS-39A ..... LEAI $60.85

MARLIN MODEL 336 CARBINES have all the fine features of the old 36 model plus new improvements that give all-round better performance. Made with a new type round breech bolt, chrome plated. Model 336 is a lever action repeater with 2/3 magazine, matted receiver surface, solid top receiver and side ejection. The barrel is round tapered and has Ballard rifling and crowned muzzle. Full pistol grip stock and semi-beavertail forearm are of black walnut. Wt. 6½ lbs.

Model 336 6-shot Sporting Carbine. 20-inch barrel. Huntsman non-glare ramp front sight with detachable hood. Rocky Mountain rear sight. Overall length 38 in.

No. GS-336SC-State Caliber-30-30, 32 Special
K.C.-O.C. Net each ILYK $70.95

No. GS-336-35—35 Remington
K.C.-O.C. Net each EOXK $80.80

Model 336 7-shot Carbine. 20 in. barrel. Rocky Mountain rear sight and bead front sight. Overall length 38 in.

No. GS-336C—State Caliber-30-30, 32 Special.
K.C.-O.C. Net each ILYK $70.95

Model 336 6-shot Carbine with 24 in. barrel with swivels and leather sling strap; Rocky Mountain rear sight. Huntsman non-glare ramp front sight with bead, quick detachable hood. Checkered. Overall length 42 in.

No. GS-336ADL—State Caliber—30-30, 32 Special.
K.C.-O.C. Net each JXAI $101.05

Model 336 6-shot Rifle with 24 in. barrel. Rocky Mountain rear sight. Huntsman non-glare ramp front sight with bead, quick detachable hood. Overall length 42 in. State Caliber—30-30, 32 Special.

No. GS-336A-State Caliber-30-30, 32 Special.
K.C.-O.C. Net each ELIK $83.95

No. GS-336A35—35 Remington
K.C.-O.C. Net each JULK $94.45

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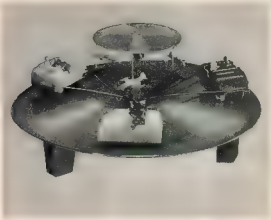
Two New MECHANICAL ACTION TOYS



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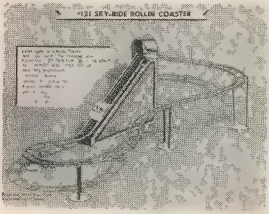

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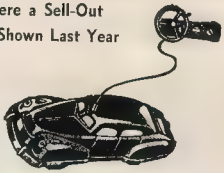

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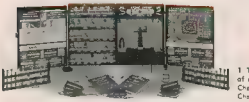

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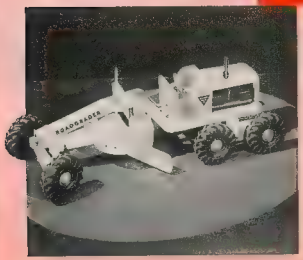
NY-LINT TOYS

NEW FOR 1951

Room 616
Hotel New Yorker
1951 TOY FAIR

No. 1300
TOURNAROCKER

A faithful scale model of the real "Tournarocker" designed and manufactured by R. G. LeTourneau, Inc., of Peoria, Illinois. Ny-Lint model is approved and authorized by LeTourneau. Has exact reproduction of distinctive action of original, including hoist on big rear-dump hopper, and two-way pivot on connecting pin. An amazingly strong and flexible toy for real hauling and dumping, just like the big machines that are used for heavy road-building work. Tournarocker is 18" long, 5-1/2" wide, 6-1/2" high, made of heavy gauge steel. Comes individually packed in corrugated cartons, 6 units to a standard shipping carton; weight of shipping carton 29-1/2 lbs.



No. 1400
ROADGRADER

Do real scraping and grading with this *working* scale model. A very strong toy that has fascinating motions. Front wheels steerable and all axles individually pivoted to follow irregularities of the grade just like the real machines you see on the highways and in the fields. Scraper blade has positive three-way adjustment — can be raised or lowered, tilted any way, and swung either left or right. A wonderful toy that should sell on sight. Dimensions, 18" long, 8" wide, 9-1/2" high. All-steel, heavy duty construction. Individually packed in corrugated cartons, 6 cartons to a standard shipping carton; weight of shipping carton 35-1/2 lbs.

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Quality Mechanical and Scale-Model Toys

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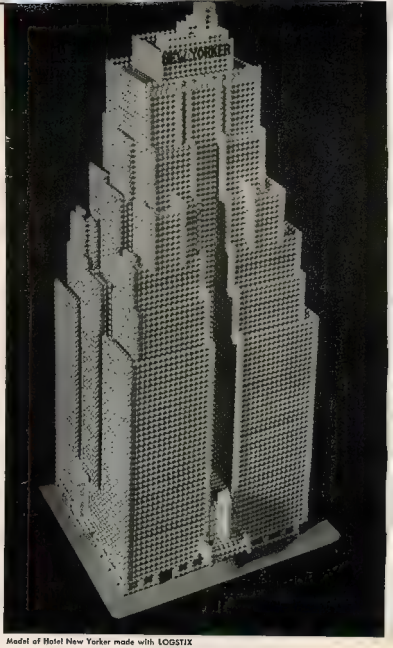
Privately registered, for interviews, at Hotel NEW YORKER during the TOY FAIR



Model of Hotel New Yorker made with LOGSTIX

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Room 874

5 Sizes—Popularly Priced—Retail $3.25 to $8.25
To Load—Push Charger Button

Many stores display BIG-BANG Guns with Soldier-sets and Sailor-sets throughout the year. This attractive display increases the sales of these Safety Guns, which are used in military games, celebrating saluting and signaling at races, sporting events, and Camp activities.

Write for complete information.

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approved by teachers and pediatricians
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LOGSTIX . . . the better building set comes in 3 sizes from $1.50 to $4.00 and can be seen in Room 638, Hotel New Yorker Toy Show.

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ROTARY AUTO LIFTS

AIRDRAULIC, FREE-WHEEL AND ROLL-ON MODELS

The makers of Rotary Lifts have over 45,000 units in use all over the world. Rotary Lifts are the result of 20 years successful manufacturing of a mechanically perfect, highly developed piece of equipment with engineering refinements that give you the maximum in simplicity, safety, economy, operating ease and beauty.

The Rotary Airdraulic type comes with "Free-Wheel" and "Roll-On" superstructures of which the Jack construction is the same. In the Airdraulic Jack the lift is air powered but oil controlled and supported. Air flowing into the top of plunger causes the lift to rise. As the lift rises, oil flows from the plunger into outer casing through a safety control valve—the reverse occurs during lowering.

A special feature is an "Automatic Bleeder" which prevents air pockets, jumpy action, oil leakage and premature wear. The automatic Air Bleeder positively prevents the forming of an air pocket. This is a small tube electrically welded through the plunger wall, providing the necessary opening for escape into the plunger exhaust chamber. Bottom of Bleeder is submerged in oil so air cannot reverse.

Jack construction Has a low pressure seal to prevent foreign matter entering working parts. Four-ring packing is easily inspected or replaced. Babbit-lined steel bearings, overall span 25 ins. Heavy steel (¼ in.) tank plate outer casing, welded construction, tested under 300 lbs. air pressure. Seamless steel tubing plunger accurately turned and polished to a mirror finish. Electrically welded stop plate at bottom of plunger positively prevents plunger ever leaving its casing.

Jack specifications—Capacity 8000 lbs. Raises 5 feet. Diameter of casing 12¼ inches—extends 91 inches below finished floor.

Easily and inexpensively installed by an ordinary mechanic. Needs only a ½-inch air pipe to your control valve and compressor—requires no tank.

Free-wheel model—(Illustrated.) Superstructure is made with two 5-inch "H" beams 16 feet long with rear axle and adjustable front end supports. Designed to handle lubrication, steam cleaning and brake work

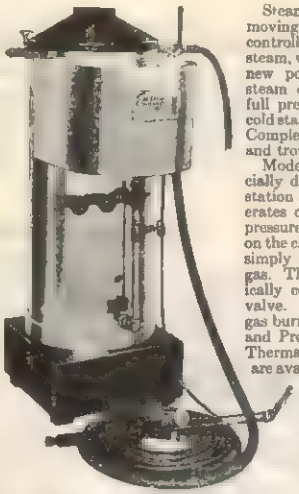
Roll-on model—This superstructure is ideal for faster handling of oil change and grease jobs. Has two 16-ft. reinforced steel runways with tapered flanges, automatic wheel chocks and handy tool shelf. Chocks lock when lift is only 6 inches off floor and do not unlock until 2 inches off floor when lowering

No.	Model	Ship wt.	* Each, F.O.B. Memphis, Tenn.
AA-16AF	Free Wheel	1394 lbs.	LAKXK
AA-20AR	Roll-on	2137 lbs.	EIEKX

*Freight allowed to Freight Station at Destination.

AUTOMATIC STEAM CLEANER

EWING



Steam in two minutes—No moving parts — Thermostatic controlled—Continuous supply steam, warm or hot water. This new popular priced Ewing steam cleaner will deliver a full pressure of steam from a cold start in two minutes or less Completely safe in operation and trouble free

Model NGC cleaner is especially designed for the service station and small garage. Operates directly off city water pressure. Solution tank is built on the cleaner. Easy to operate, simply turn on the water and gas. The thermostat automatically controls the three-way valve. Equipped with natural gas burners regularly. Butane and Propane gas burners with Thermal Safety control valves are available at additional cost

Specifications – Converts 1 gallon of water into steam per minute Furnishes 6 gallons of warm water per minute. Triple coils (100 feet) of seamless steel tubing tested at 600 lbs. pressure. Heavy steel construction, asbestos lined. Overall size. Height 57 in. Diameter at base 20 in. Solution container holds 15 gallons. Equipped with 25 ft. of ¾-in. heavy duty steam hose, 25 ft. ¾-in. solution hose, Ewing vacuum steam gun and all necessary valves

No. AA-NGC—For natural gas. Shipped direct from factory, Oklahoma City, Okla. Freight allowed. . . . . Each **UOIKX**
Add extra for Butane or Propane gas burners with Thermal Safety control $20 00

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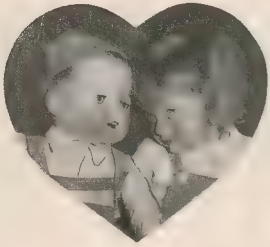
Sayco Babies



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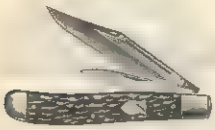
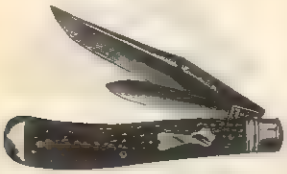
POCKET KNIVES.



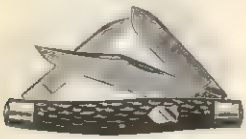
Pocket Knife 272. Serpentine Jack Knife; 2 7/8 inches long; stagged handle; 2 blades (Clip and Pen); brass linings; nickel silver bolsters, caps and shield; large blade polished on one side. **Packed ½ doz. in box, wt. per doz. 15 oz.**

K.C.-O.C. Doz.
No. CS-272 ..... OKXK



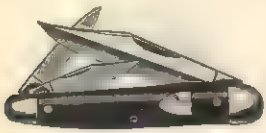
Pocket Knife 294. Serpentine Jack Knife; 3 7/8 inches long; bone stag handle; 3 blades (Half Sabre Clip and Pen); brass linings; nickel silver bolsters, caps and shield; large blade polished on one side. **Packed ½ doz. in box, wt. doz. 2 lbs. 5 oz.**

K.C.-O.C. Doz.
No. CS-294 ..... OLKX



Pocket Knife 834. Serpentine Pattern, 3 5/16 inches long; bone stag handle; 3 blades (clip, spey and pen); brass linings; nickel silver bolsters and shield; large blade polished on one side. **Packed ½ doz. in box, wt. 1 lb. 4 oz.**

K.C.-O.C. Doz.
No. CS-834 ..... OLKX



Pocket Knife 836. Serpentine Pattern; 3 9/16 inches long; black celluloid handle; 3 blades (large sabre clip, small clip and pen); brass linings; nickel silver bolsters and shield; blades full polished. **Packed ½ doz in box, wt. doz. 1 lb. 10 oz.**

K.C.-O.C. Doz.
No. CS-836 ..... UOKX

Pocket Knife 741. Safety Push button knife; 3 3/8 inches long; celluloid handles in assorted colors; 2 blades (Spear and Pen) brass linings; large blade polished on one side. **Packed ½ doz. in box, wt. per doz. 1 lb. 1 oz.**

K.C.-O.C. Doz.
No. CS-741 ..... OAKX

Pocket Knife 745. Safety push button knife; 2 7/8 inches long; celluloid handles in assorted colors; 2 blades (Spear and Pen); brass linings; large blade polished on one side. **Packed ½ doz. on box, wt. doz. 11 oz.**

K.C.-O.C. Doz.
No. CS-745 ..... OAKX

Pocket Knife 842. Senator Pattern; 3 1/8 inlong; marine pearl handle; 3 blades (Spear, pen and long flexible nail file); brass linings, nickel silver tips and shield; large blade polished on one side. **Packed ½ doz. in box, wt. doz. 1 lb. 1 oz.**

K.C.-O.C. Doz.
No. CS-842 ..... OLKX

Pocket Knife 760. Senator Pattern; 3 1/8 in. long; mottled brown horn celluloid handle; 2 blades (Clip and Pen); brass linings; nickel silver bolsters and shield; large blade polished on one side. **Packed ½ doz. in box, wt. per doz. 14 oz.**

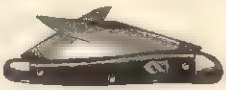
K.C.-O.C. Doz
No. CS-760 ..... OKXK

Pocket Knife 890. Premium stock knife; 3½ inches long; bone stag handle; 3 blades (clip sheepfoot and spey); brass linings; nickel silver bolsters and shield; large blade polished on one side. **Packed ½ doz. in box, wt. doz. 1 lb. 4 oz.**

K.C.-O.C. Doz.
No. CS-890 ..... OLKX

Pocket Knife 861. Slim premium stock knife 4 inches long; bone stag handle; 3 blades (Turkish Clip, Sheepfoot and Spey); Nickel silver linings, bolsters and shields; milled back; large blade polished on one side **Packed ½ doz. in box, wt. doz. 1 lb. 10 oz.**

K.C.-O.C. Doz.
No. CS-861 ..... UOKX



Pocket Knife 766. Wharncliffe pattern; 3 1/1 inches long; black celluloid handle; 2 blades (Clip and Pen); brass linings; nickel silver bolsters and shield; large blade polished o one side. **Packed ½ doz. in box, wt. per doz 11 oz.**

K.C.-O.C. Doz
No. CS-766 ..... OKX

Pocket Knife, Slim Pattern 782. 2½ inches long; solid Marine pearl handle; 2 blades (Spear and Pen); nickel silver linings and tips; large blade polished on one side **Packed ½ doz. in box, wt. doz. 8 oz.**

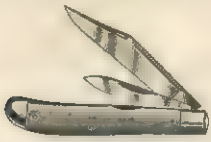
K.C.-O.C. Doz.
No. CS-782 ..... OAK

RICH-CON POCKET KNIVES

MANUFACTURED BY ULSTER KNIFE COMPANY

JACK KNIFE, 180 Style. Dogleg Jack Knife, 2 7/8 inches long; black stagged handles; 2 blades (clip and pen); brass linings; nickel silver bolsters and caps; blades full mirror polished. **Packed ½ dozen in box, wt. per dozen 1 lb.**

K.C.-O.C. Doz.
No. CS-180S . . . . . **AKX**



No. CS-180Y—Same description as 180S, only with yellow handle.

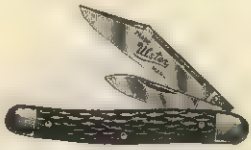
K.C.-O.C. Doz.
. . . . . **AXK**

No. CS-180P—Same description as 180S, only with pearl handle.

K.C.-O.C. Doz.
. . . . . **AXK**

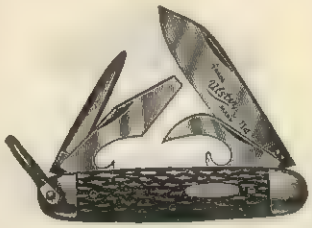
JACK KNIFE, Style 40G. Medium serpentine Jack Knife, 3½ inches long; genuine **Bone Stag** handles; 2 blades (clip and pen); brass linings; nickel silver bolsters; master blade polished mark side only, other blades glazed on both sides. **Packed ½ dozen in box, wt. per dozen 2 lbs.**

K.C.-O.C. Doz.
No. CS-40G . . . . . **YOKX**



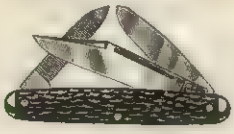
JACK KNIFE, 50 Style. Slim serpentine Jack Knife, 3¼ inches long; genuine **Bone Stag** handles; 2 blades (clip and pen); brass linings; nickel silver bolsters; master blade polished mark side only, other blades glazed on both sides. **Packed ½ doz. in box, wt. per dozen 1¼ lbs.**

K.C.-O.C. Doz.
No. CS-50G . . . . . **YOKX**



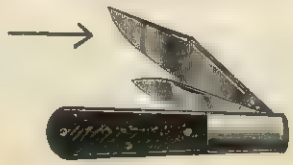
UTILITY KNIFE, Style 114. 4-blade Utility knife, 3¾ inches long; black stagged handles; 4 blades (spear, canopener, screwdriver-cat-lifter and leather punch); brass linings; nickel silver bolsters, shield and shackle; blades full mirror polished. **Packed ½ dozen in box, wt. per dozen 3 lbs.**

K.C.-O.C. Doz.
No. CS-41145 . . . . . **YEKX**



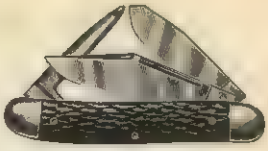
POCKET KNIFE, Senator Pattern. 3 1/8 inches long; brown stagged handles; 3 blades (clip, spey and flexible nail file); brass linings; nickel silver tips and shield; blades full mirror polished. **Packed ½ dozen in box, wt. per dozen 1½ lbs.**

K.C.-O.C. Doz.
No. CS-74B . . . . . **YOKX**



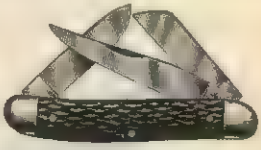
HARLOW KNIFE, Style 10G. 2-blade barlow, 3/8 inches long; genuine bone handles; 2 blades (clip and pen); brass linings; iron bolsters; blades full mirror polished. **Packed one dozen to an attractive, full-color display card. Wt. per dozen 2 lbs.**

K.C.-O.C. Doz.
No. CS-10G . . . . . **YKAK**



STOCK KNIFE, Style 347. Premium stock knife, 3½ inches long; Brown stagged handles; 3 blades (clip, spey and punch); brass linings; nickel silver bolsters and shield; blades full mirror polished. **Packed ½ dozen in box, wt. per dozen 2 lbs.**

K.C.-O.C. Doz.
No. CS-347B . . . . . **YEKX**



STOCK KNIFE, Style 44. Premium stock knife, 3½ inches long; genuine **Bone Stag** handles; 3 blades (Turkish, clip, sheepfoot and spey); brass linings; nickel silver bolsters; master blade polished mark side only, other blades glazed on both sides. **Packed ½ dozen in box, wt. per dozen 2 lbs.**

K.C.-O.C. Doz.
No. CS-44G . . . . . **YEKX**

STOCK KNIFE, Style 45. Medium size premium stock knife, 3½ inches long; genuine **Bone Stag** handles; 3 blades (clip, spey and pen); brass linings; nickel silver bolsters; master blade polished mark side only, other blades glazed on both sides. **Packed ½ dozen in box, wt. per dozen 2 lbs.**

K.C.-O.C. Doz.
No. CS-45G . . . . . **YEKX**

STOCK KNIFE, Style 55. Slim premium stock knife, 3¼ inches long; genuine **Bone Stag** handles; 3 blades (clip, spey and pen); brass linings; nickel silver bolsters; master blade polished mark side only, other blades glazed on both sides. **Packed ½ dozen in box, wt. per dozen 1½ lbs.**

K.C.-O.C. Doz.
No. CS-55G . . . . . **YEKX**

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"MARKSMAN", the automatic rubber suction dart pistol, features the revolving "ammunition" chamber and fires 5 accurate shots with one loading. This handsome toy innovation will inject new life into your Toy Department!

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#220—Over-all length 8". Made of smart, sturdy red and black durable plastic.

Each attractively colored box contains the "MARKSMAN"* Automatic Dart Pistol, 5 Plastic Rubber Suction Cup Darts, a Four-Color Bullseye Target and full simple instructions. Individually packed, 12 boxes to carton, weight 23 lbs.

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*T.M.-Pat. App. For

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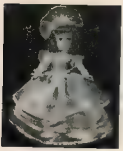
BRIDE



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The 31 Puzzle

High-Frequency Repeater . . . High Profit . . . Styled . . . Priced . . . Packaged . . . and Displayed to SELL and S-E-L-L!

COUNTER DISPLAY

The "31" is streamlined plastic . . . polished red-black-ivory combination 31 sliding squares. Stamped 22K gold. 2 color plastic cover. Instruction card and illustrated folder. Each in 3 color box that can be used as gift mailer. Dozen in 3 color counter display, with window streamer.

NOW! The Amazing TELEVIEWER

with Young America's Favorite Movie and Television Characters! Gene Autry, Roy Rogers, Lone Rider in *Thrilling Western Stories!*

Pocket size thrill-container! . . . makes every kid a walking-movie exhibitor! Wildfire seller . . . Non-Colored plastic COMPLETE WITH 3 FILMS. Each Televiewer Set on individual self-selling display card and stand, printed in color.

Wild West HORSES and RIDERS

PLATED STYLES! HAND-PAINTED STYLES!

- Bulk Packing
- Two-Color Cellophane Envelopes
- Boxed Sets.

From the heart of Texas and the Great West . . . straight to the heart of every boy! Eight different action poses . . . Cowboys . . . Indians . . . Rearing Horses . . . Running Horses . . . Genuine Gold or Silver Lifetime Plating . . . Won't chip, tarnish, peel or crackle . . . Hand Painted finishes . . . or full variety plastic colors. Priced to hit the bullseye for volume!

Also . . . Hand Painted finishes in Envelopes, too!

59¢ "TELEVISION THEATRE" BOX

LOOK FOR OUR REALISTIC TOY SOLDIERS IN ACTION!

SEE US AT THE TOY FAIR, ROOM 542, HOTEL McALPIN

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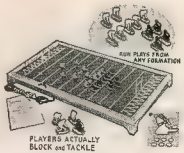
It's not too late YET

Tudor

TRU-ACTION

ELECTRIC GAMES



No. 500
TRU-ACTION
ELECTRIC
FOOTBALL

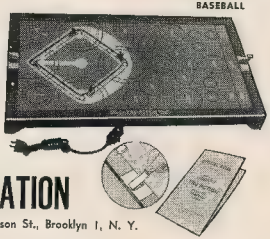
WE are happy that we were able to give our customers such good service in 1950. We will do everything possible to continue this record, and will be looking for you at the Toy Fair . . . in

ROOM **551**

No. 525
TRU-ACTION
ELECTRIC
HORSE RACE

No. 550
TRU-ACTION
ELECTRIC
BASEBALL

Also the famous **TUDOR**
XYLOPHONES
PIANOS *and* **BANJOS**



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METAL PRODUCTS CORPORATION

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Stormy seas or calm . . . good times and bad . . .

for 35 years the name Uneeda has been synonymous

with Reliability. That's why

"It's Always Smooth Selling with UNEEDA DOLL"

See America's Most COMPLETE Line of Popular Priced Dolls at

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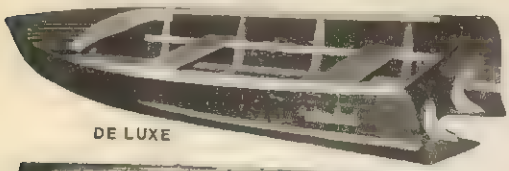
INDIAN HEAD BOATS

FLAMBEAU

F.O.B. CHIPPEWA FALLS, WISCONSIN



DE LUXE

The Sportsman's Dream. Light enough for car tops, yet strong and seaworthy. The rounding bottom and sides and the deep vee bow make for less spray and smoother riding. Seat risers and floor racks are full length, also there are 5 full length floor racks. **Planking,** Marine plywood. **Frames,** Selected white oak. All frames are bolted together. **Fastenings,** brass cadmium plated or zinc plated. **Transom,** Mahogany Marine plywood reinforced with white oak. **Finish,** all boats have a glass like finish obtained with high quality Marine paint. Fir boats are painted on the outside and varnished on the inside. Mahogany boats are varnished inside and out. Uses 1 to 7.9 H.P. Motor, and under reasonable handling will handle up to 10 H.P. motor.

Flambeau "Twelve". Length 11'8", beam 49", depth 16", bottom width 36½", bow depth 19". **Approx. wt. 95 lbs.**

No. GX-F12NDFP–12 ft. No Deck, Fir Plywood. . . . . Each F.O.B. Factory
. . . . . YUAIK $172.50

No. GX-F12NDMP–12 ft. No Deck, Mahogany Plywood. . . . . Each F.O.B. Factory
. . . . . YLCJI $187.50

No. GX-FSD12DFP–12 ft. Special DeLuxe. Decked Fir. . . . . Each F.O.B. Factory
. . . . . YIXOI $195.00

No. GX-FSD12DMP– 12 ft. Special DeLuxe. Decked Mahogany. . . . Each F.O.B. Factory
. . . . . YEXIK $210.00

Flambeau "Fourteen". Length 13'8", beam 49", depth 16", bottom width 36½", bow depth 19". **Approx. wt. 120 lbs.**

No. GX-F14NDFP– 14 ft. No Deck, Fir Plywood. . . . . Each F.O.B. Factory
. . . . . YIXOI $195.00

No. GX-FSD14DFP–14 ft. Special DeLuxe. Decked Fir. . . . . Each F.O.B. Factory
. . . . . YJKOI $215.00

Dealer Prices include $9.00 Crating Charge. Add $9.00 to List Price.

FISHER PLYWOOD BOATS

POINTED BOW BOATS

Solid core genuine Marine plywood. Non-hardening plastic seam compound between all joints assure a leak-free boat. Water tank tested. Gusseted oak ribs, oak gunwales, seat rails, quarter knees, and breast hook. **Easy maneuvering and planing with outboard motor.** Design permits efficient paddling and shallow draft makes for easy rowing. **Hand brushed green Marine enamel** outside. Gunwales and inside sprayed two coats Marine spar varnish. Chemical impregnation prior to finishing resists rot. **Appointments:** Full length pine floor boards. Eased edge pine seats, non-corrosive oar locks and bow eye, reinforced transom meets outboard motor specifications. **Brass slotted head screws** and brass drive screws used exclusively. **Bottom protection assured** by oak rub strips on either side of full length oak keel.

Fisher "Twelve", Ideal for car top carriage. For outboard motors to 5 H.P., length 12 ft., beam 42½", depth 14", ¼" plywood. **Net wt. 90 lbs., crated ship. wt. 165 lbs. Price includes crating.**

No. GX-120 . . . . . Each F.O.B. Factory
. . . . . ECEI $99.50

Fisher "Fourteen". For outboard motors to 7½ H.P., length 14 ft., beam 43½", depth 14½", ¼" plywood. **Net wt. 115 lbs., crated ship. wt. 195 lbs. Price includes crating.**

No. GX-140 . . . . . Each F.O.B. Factory
. . . . . JEXI $109.50

FISHER CEDAR STRIP BOATS

POINTED BOW BOATS

STANDARD STRIPS

F.O.B. LITTLE ROCK, ARKANSAS

Vertical grain air dried western red Cedar planking. Select Oak ribs, bilge stringers, keel, knees, seat risers, rails, gunwales. Mahogany plywood transom. **Brass screw fastened** through every plank to every rib while under terrific lateral pressure. **Compression Seam Construction** makes best possible hull. **Superior performance guaranteed** by scientific semi-V bottom design which permits quick planing, high speed and level riding. **Best obtainable Marine enamel** outside finish. Three coats hand brushed application. Inside and gunwales finished with bakelite Marine Spar Varnish. An outstanding value in a quick planing, seaworthy outboard. Practically non-tippable. Designed to give exceptional performance with the smaller outboard motors. Outside Marine enameled green.

Standard "Twelve". For motors to 16 H.P. Length 12 ft., beam 48", depth amid 18". **Net wt. 170 lbs., crated ship. wt. 280 lbs. Price includes crating.**

No. GX-0129 . . . . . Each F.O.B. Factory
. . . . . YUCEI $199.50

Standard "Fourteen". For motors to 16 H.P. Length 14 ft., beam 50", depth amid 19". **Net wt. 195 lbs. crated ship. wt. 300 lbs. Price includes crating.**

No. GX-0149 . . . . . Each F.O.B. Factory
. . . . . YIJYI $224.50

Standard "Sixteen". For motors to 16 H.P. Length 16 ft., beam 52", depth amid 20". **Net wt. 205 lbs., crated ship. wt. 320 lbs. Price includes crating.**

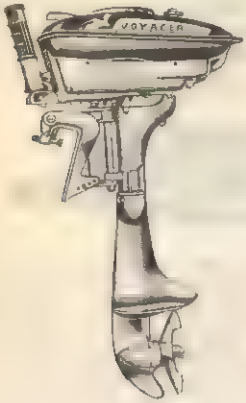
No. GX-0169 . . . . . Each F.O.B. Factory
. . . . . YJLEI $249.50

BOAT TRAILER, Rose. For boats up to 14 ft. . . . . 60 inch beam. . . . 500 lbs. load capacity. Low slung so that it will tow boat and accessories safely and easily at normal car speed. One person can easily handle trailer and boat and launch directly into water. Adjustable keel blocks, for all types of hulls, is cushioned with thick live rubber. Flexible leaf spring axle assembly provides a smooth ride under all road conditions. Moisture proof and grease packed Timken bearings in high speed all-steel wheels. Automobile tread width. 4.00x8 (16 in.) tires. Furnished complete with tires, tubes, fenders, ball and socket coupler, and break-away chains. Ship. wt. 120 lbs.

F. o. b. Hastings, Nebr.

No. GX-25 . . . . Each **EAJI $99.50**

VOYAGER OUTBOARD MOTORS



1VA

STANDARD SINGLE

4.2 H. P. Motor. A powerful single moderately priced. Gives you the flash and performance of the average lite twin and throttles down to smooth steady trolling speeds. For sturdy dependability, quick, one-pull starting and all 'round outboard satisfaction.

SPECIFICATIONS

Size–2-1 1/16 Bore by 1–¾ Stroke, Piston Displacement. 5.84 cu. in. **Horsepower**–4.2. O.B.C. Certified at 4300 R.P.M. **Valve System**–Internal Dual Rotary Valve–2 Port. **Carburetor**–Tillotson-Dual Jet. Concentric Bowl Type. **Ignition**–Scintella Alnico Rotor Magneto. **Starter**–Rope starter. **Steering**–Full Reverse, 360°, with automatic Co-Pilot. **Fuel Capacity**–5 quarts. **Gear Ratio and Propeller**–14-24 gear ratio–8x5½ two blade propeller. **Cooling**–Water cooled, Centrifugal pump in lower unit. **Speed Range**–Approx. 1 to 10 M.P.M. depending on boat and load. **Approx. wt. 37 lbs.**

No.		K.C.-O.C. Net each
GS-1VA—1949 model..	J L K X	$132.50
GS-1VB—1950 model..	C L J I	132.50

OUTBOARD MOTOR CHAIN, Frabill's Safety. A 60 in. twisted pattern chain having a tensile strength of 750 lbs. Fitted with swivel snaps and universal bracket. Fits tilt bolt of any outboard motor up to 22 h. p. Cadmium plated. Individually boxed, 12 in a display box, wt. 5 lbs.

No.	K.C.-O.C. doz
No. GS-C54	J O K $1.00 ea

VOYAGER OUTBOARD MOTORS. Made by the Champion Motor Co. under the name "Voyager" and reserved for the jobber exclusively. This line is the same as the well known Champion—the parts are interchangeable and can either be obtained or serviced through the Champion Service Stations. The "Voyager" gives you these 10 high priced motor features: (1) Quiet under water exhaust. (2) Permanently magnetized, high tension magneto. (3) Low expansion metal pistons. (4) Positive lubrication. (5) Zerol cut silent gears. (6) Neoprene grease seals. (7) Salt water corrosion proofed by Alrok process. (8) Dual jet concentric type carburetor. (9) Removable cylinder head. (10) Centrifugal pump positive cooling.

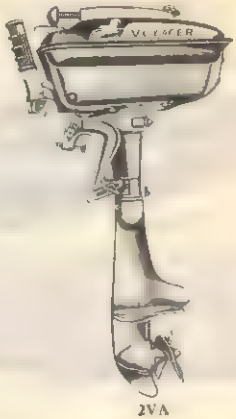
DE LUXE LITE TWIN

7.9 H. P. Motor. An all-purpose high-powered motor at a reasonable price. Designed especially for family use on runabouts, and for commercial duty. Sustained speed for pleasure cruising plus good flexibility. Automotive type carburetor and high tension magneto. Simplified, responsive controls and easy, certain starting. Full reverse steering and automatic rewind starter.

SPECIFICATIONS

Size–2-1/8 bore by 1¾ stroke, piston displacement 12.41 cu. in. **Horsepower**–7.9 O.B.C. Certified at 4200 R.P.M. **Valve System**–Internal Dual rotary valve–2 port. **Carburetor**–Tillotson–Dual Jet–Concentric Bowl Type, **Ignition**–Scintella Alnico Rotor Magneto. **Starter**–Pull-O-Matic. **Steering**–Full Reverse, 360°, with automatic Co-Pilot. **Fuel Capacity**–6 quarts. **Gear Ratio and Propeller**–14-24 gear ratio–8¼x8½ Three blade propeller. **Cooling**–Water cooled, Centrifugal pump in lower unit. **Speed Range**–Approx. 1½ to 18 M.P.H. Depending on boat and load. **Approx. wt. 51 lbs.**

No.	K.C.-O.C. Net each
GS-4VA....	Y L Y E I $199.50



2VA

DE LUXE SINGLE

4.2 H. P. Motor. Moderate in size, modern in design, the Voyager gives you good maneuverability and speed range. An ideal fishing motor. With its light, easy-to-carry weight, it has the speed to take you quickly to the fishing spots and has the steady troll-ability that gets results Automatic rewind starter and full 360° steering

Same Specifications as 1VB, except has Pull-O-Matic Starter and **approx. wt. 39 lbs.**

No.	K.C.-O.C. Net each
GS-2VA.....	Y X U E I $159.50

OUTBOARD MOTOR STANDS

A lightweight, low cost stand primarily designed for resale to outboard motor owners for proper storage of all popular motors up to 5 H.P. Compactness and lightweight of folded unit enables sportsman to transport stand for motor storage at cabin or camp. Oil drip plate prevents soiled floor while motor is in storage or on display. Three point supports for stability on rough surfaces. Hardwood mounting panel 8"x3½"x1 1/8". 3/8" Steel rod supports. Durable rust-proof finish. Size folded, 32"x17"x1¼". **Individually boxed, six in a ship. carton, ship. wt. 35 lbs.**

No. GS-B1–K.C.-O.C. each O U I

AUTOMOBILE JACK, Walker DeLuxe. This new scissors jack incorporates many outstanding features of construction that provide a new ease of operation---new strength---and an extreme lifting range. **With these Outstanding Features...**Over-sized sled-type base 4"x8" for ease of positioning and stability ...are welded to jack body for extra strength. Extra-heavy steel linkage built for dependable structural strength under eccentric load strains. Sturdy lifting screw with deep-grooved fully-formed acme thread assures jerk-free and bind-proof operation of jack. Positive Balanced Grip Saddle is over-sized and self-centering for safe under-axle lifting. Fully Enclosed Thrust Bearing is precision fit for speedy, frictionless turning under all conditions. Extra-strong Handle Socket is accurately machined high grade steel. Long 49¾" Folding Handle has semi-universal driving end with special ball lock for ease of positioning jack. Capacity 1½ tons, height 4¾", power raise 9½". Full height 14½". **Ship. wt. 14 lbs. Packed 8 in standard case.**

. . . . . K.C.-O.C. Net each
No. AA-110 . . . . . **EIX $9.35**

AUTOMOBILE JACK, Walker Vertilift Auto Jack. Never before has it been possible to combine such a low starting height and ample power to raise with easy handle effort in a mechanically operated jack. Cantilever construction moved by "Inclined Booster Plane" mechanism. Base size is 3 5/8x18 inches, offers most stable lifting foundation of any passenger jack on the market. Large rugged non-skid saddle has a starting height of 4¾ inches; top height 15 3/8 inches. Attractively finished. Complete with 41¾ inch handle. Capacity 2,000 lbs. **One in a box, ship. wt. each 18 lbs.**

No. AA-120 . . . . . K.C.-O.C. Net each
. . . . . **YOUK $17.55**

AUTOMOBILE JACK, Walker Double Extension Screw. Designed especially for the new small cars with springs and axles set down low to the ground. Has ample capacity to handle all of the popular light weight cars such as Chevrolet, Plymouth, Essex, etc. Double extension screw with enclosed gears. Will get under the lowest car when tire is flat. Has a power raise of 7 5/8 inches to lift the wheel well off the ground for a tire change. Big, broad, sled-type base makes it easy to slide the jack under and out. Substantial steel cap with tilting feature that insures a positive grip on spring or axle. 39 inch long, turning type folding handle. Diameter screws 11/16 inch, and 1 inch. Capacity ¾ ton, height 5¼ ins., raise 7¼ ins. **One in a box, net wt. each 4½ lbs.**

No. AA-325 . . . . . K.C.-O.C. Net each
. . . . . **OCI $4.20**

AUTOMOBILE JACK, Screw Jack, Walker 5 Ton. For truck service. Mechanical type double screw jack of 5 ton capacity. Rugged malleable construction with gears operating on large ball bearings. Height 8 1/8 in.; raise 10¼ in.; Diameter of screws 1—1½ in.; with 24 in. handle. **wt. 14½ lbs.**

No. AA-270 . . . . . K.C.-O.C. Net each
. . . . . **JXK $11.00**

HYDRAULIC JACK OIL, Walker Hydro
For use in hydraulic passenger car
truck jacks and Walker Hydraulic Roll
Car Jack. Will operate satisfactory at
temperature above zero. Has long life.
quart required for a complete refill of Wal
Hydraulic Roll-a-Car. This oil is the origi
filling in all Walker Hydraulic Jacks. In
quart tin cans; net wt. per can 1 lb. Pack
loose.

No. AA-50 . . . . . K.C.-O.C. Net
. . . . . .

In one gallon glass jugs. Ship. wt. per c
50 lbs.

No. AA-50G . . . . . K.C.-O.C. Net G
. . . . . **YC**

AUTOMOBILE JACKS

WALKER SINGLE LIFT HYDRAULIC

Built for heavy duty truck and bus service, either on the road or in the station. Power range increased by screw extension. Pump and ram operating mechanism completely enclosed; all working parts are cadmium plated. Removable oil filter screen. Remove oil plug and filter screen can be removed and oil lines flushed and cleaned. Countersunk case hardened cap with milled teeth. Automatic safety valve, protects operator, jack and load. Centered handle socket with single link pump coupling. Needle valve release control gives the operator constant and accurate control over the speed of lowering. Valve may be opened or closed with bayonet handle. Can not be unscrewed to far, resulting in loss of oil or valve. 33½ inch two piece handle, knurled hand grips. Replaceable cup washer, skid base, size 3¾x6⅝ inches.

No.	AA-966	AA-925	AA-930
Capacity, tons	1½	3½	5½
Height, ins	7	8½	9
Raise, ins	5½	6	6¼
Screw extension, ins	2⅛	3½	4
Diameter ram, ins	⅛	1⅛	1⅜
Full height, ins	14¼	18	19¼
Net wt. each, lbs.	9	16	19
Factory list each	$13.55	20.80	24.50
Net each..K.C.-O.C.	CIK	YLIX	YJYI

One in a carton, handles loose.

WALKER SINGLE LIFT HYDRAULIC

A powerful heavy duty truck and bus jack, for service either on road or in the station. Power range increased by screw extension. Pump and ram operating mechanism completely enclosed; all working parts are cadmium plated. Removable oil filter screen. By removing oil plug, filter screen can be removed and oil lines flushed and cleaned. Countersunk case hardened cap with milled teeth. Automatic safety valve, protects operator, jack and load Centered handle socket with single link pump coupling. Needle valve release control gives the operator constant and accurate control over the speed of lowering. Valve may be opened or closed with bayonet handle. Can not be unscrewed to far, resulting in loss of oil or valve. Two piece self locking handle, knurled hand grips. Replaceable cup washer, skid base Adjustable carrying handle. Blue enamel finish.

No. AA-935—Capacity 8 tons; height 9 ins., raise 6¼ ins.; screw extension 4¼ ins; diameter of ram 1½ ins.; full height 19½ ins; 33½ in handle; base 4⅝x7⅛ ins.; net wt. each 22 lbs. . . . . K.C.-O.C. Net each, YCJK $28.15

No. AA-945—Capacity 12 tons; height 9¼ ins., raise 5½ ins.; screw extension 3¼ ins.; diameter of ram 1¾ ins.; full height 17¾ ins.; 28 in. handle; base 4⅝x6⅝ ins.; net wt. each 35 lbs. . . . . K.C.-O.C. Net each, OIAK $36.85

One in a carton, handles loose.

ACE-HY COMBINATION PACKAGE. Hydraulic Jack and Wheel Block. Jack is Similar to AH Jack shown except this has the new style hinged hook and comes with Collapsible Wheel blocks for safety. Packed in a box with snap fasteners.

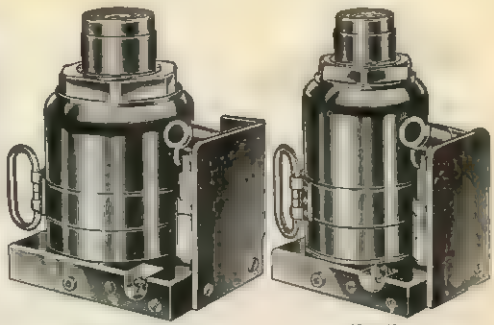
K.C.-O.C. each

No. AA-AHC . . . . . YKUK $14.75
Case lots of 10 CAI

VULCAN SAFETY WHEEL BLOCKS. Collapsible wheel block, same as furnished in Ace-Hy combination package. K.C.-O.C. each

No. AA-WB . . . . . YOK $1.80
Case lot of 24 YKA

* WALKER HEAVY DUTY



No. 965 No. 960

Handy, all purpose, big job power—for bending, straighting, pushing and lifting. With new "flash-contact" tandem pump the jack cap is quickly brought into contact with the work by the speed pump. Cut-over is automatic—with no repositioning the handle. These fast dependable hydraulic super jacks bring to industry a new and convenient source of tremendous power. Rugged and sturdy. In-built quality. New features for heavy duty shop service. Removable gland nut assembly permits ram to be remove for service without taking jack apart. Cap made of high grade alloy steel, heat treated for extra strength. Serrated in concentric circle grooves to provide non-skid surface. Adjustable handle can be placed in any position around circumference of jack. Simplifies holding jack in place until the load is contacted. "Flash-Contact" tandem pump both speed and power pumps provides quick application of power to load without repositioning handle. Solid steel, precision machined base. All valves accessible for easy cleaning and servicing. Equipped with outlet for pressure gauge when desired. Micro-accurate safety release valve, operated by bayonet handle, easily and safety controls lowering speed. Armor plate protector protects the pump and handle socket and permits resting jack on the pump side for horizontal operation. 23½ inch handle.

No.	AA-960	AA-965
Capacity, tons	30	50
Height, closed, ins	11	11
Raise, ins	7½	6
Total height, ins	18½	17
Diameter ram, ins	2¾	3⅝
Size base, ins	8x6¼	9½x8
Net wt. each, lbs	67	110
*Net each F.O.B. Racine, Wis.	AYKX	YOIKX

ACE-HY UNIVERSAL HYDRAULIC BUMPER

The ideal lifting Jack for modern cars. Simple compact, dependable. Car never to low to get jack placed. Not necessary to get down on hands and knees. Ideal for disengaging hooked bumpers. Perfect for putting on tire chains. Easy hydraulic lift, quick action. Perfect height adjustment. Nothing to put together, nothing to get lost. Enough to lift for any car. Simple construction, light weight. Requires no projecting levers to operate. Operated by handle on top of jack. Attractive rust resisting finish. Has new two-point Universal hook to fit the bumpers of all cars. Lifting capacity 3000 lbs. Lifting range 18 ins., hook adjustment 14½ ins. Height over all lowered 27½ ins. Net wt. each 10 lbs.

No. AA-HU . . . . . K.C.-O.C. Net each
. . . . . 1 to 9 AJI $12.50
10, up ALI

JOE'S GRASSHOPPER DISPLAY CARD, Glen L. Evans. Consists of a total of 2 dozen of the popular Grade 895E eyed Grasshoppers. Flies are instantly removable for inspection. Supplied in sizes 6, 8, 10 or 12 hooks. **Packed one display card to box. (2 dozen on card)**

K.C.-O.C. Display
No.GS-0895E . . . . . LUO $7.20

JOE'S GRASSHOPPER, Glen L. Evans. When the natural "hoppers" are out trout will hardly rise to anything else. "Joe's Grasshopper" pattern is really made to look like the natural "pest" and is tied in such a manner that it can be fished either wet or dry. A sure killer on all streams during many weeks of the season. Hooks: Sizes 6, 8, 10, 12. Special long shank t.d.E. hollow point Sproat. Eyed without snell. **Packed 12 per box.**

K.C.-O.C. Dozen
No.GS-895E . . . . . OYE $3.60

GRUBBER ASSORTMENT, Glen L. Evans Vis-O-Pak. These lifelike reproductions of the grubber family are tops as an artificial lure. Durably made with semi-transparent bodies, hair-trimmed, they show no appreciable wear even after taking many fish. Dressed on special shaped round bend hooks in the eyed (without snell) type only. Three patterns as follows:

White Grub—semi-transparent white body, dark head, with badger hair legs.

Wood Grub—semi-transparent tan body, dark brown head, brown legs.

Ground Grub—body with white back and darker belly, red eye, black legs.

Packed 3 Grubbers to a folder—12 folders to a box. Size 10.

K.C.-O.C. Asst.
No.GS-VP893-10 . . . . . JO $1.20

"SURE-FIRE" SNELLED FLY SPINNER, Glen L. Evans. A killer for pan fish or trout. Combines a Grey Hackle Peacock fly on heavy 6" nylon snell with polished nickel spinner blade revolving on the snell. Red beads keep the spinner blade correctly spaced ahead of the fly. One dozen individually packed on 2-color 5x11" easel display card. **Packed one to box.**

No. GS-OSF82-4—With all size 4 fly
GS-OSF82-6—With all size 6 fly

K.C.-O.C. display OIO $4.20

DRI-HACKLE FLY ASSORTMENT, Glen L. Evans. In answer to a constant demand for a really good dry fly that can be sold at a popular price, we present the new "Dri-Hackle" series. All patterns have either single color silk or peacock bodies and are dressed with tails. Tinsel decorations, fancy feathers and elaborate color combinations have been omitted. The hackle is tied on in the true dry fly style with the natural untrimmed hackle spikes standing out at right angle to the body. Hooks: Sizes 8, 10, 12, 14. Superior quality T.D. eye Sproat shape. Supplied in the eyed (without snell) type only. Assorted colors. **Packed 6 dozen in assortment.**

K.C.-O.C. Asst.
No.GS-905 . . . . . JIE $12.60

GRASSHOPPER AND CRICKET LURES

GRASSHOPPER and CRICKET LURES, Nature-Faker. The most perfect reproduction of Life-Like Lures. Actually molded from real life specimens and made of an improved latex formula. For casting rod, fly rod, spinning rod or still fishing. Catches all fresh water fish. Grasshoppers packed box of 12 assorted colors—No. 4, 6 and 10 size hooks.

We do not break Assortments.

		K.C.-O.C. Asst.
No. GS-G405	ILK	$9.00

Crickets packed box of 12, No. 8 size hooks.

		K.C.-O.C. Dozen
No. GS-C404	ILK	$9.00

WORDEN'S LURES

HUMBUG, Worden's. Soft, wiggling crawfish lures are, the strongest, lightest, most realistic acting lure made for their size. Guaranteed to never split, sliver or break. They are light enough to float, and strong enough to land Salmon; can be fished. Weedless. 1/24

to land Salmon; can be fished. Weedless. **Three Sizes: #1, wt. 1/24 oz., hook size 10; #2, wt. 1/19 oz., hook size 8; #3, wt. 1/15 ozs., hook size 6. Packed one dozen on counter card; assorted or straight patterns.**

Size 1 —
- GS-6061GR — Green
- GS-6061BLK — Black
- GS-6061WHT — White
- GS-6061SIL — Silver
- GS-6061YL — Yellow
- GS-6061BR — Brown

K.C.-O.C. Doz. ILK $9.00

Size 2 —
- GS-6062GR — Green
- GS-6062BLK — Black
- GS-6062WHT — White
- GS-6062SIL — Silver
- GS-6062YL — Yellow
- GS-6062BR — Brown

K.C.-O.C. Doz. EYO $10.20

Size 3 —
- GS-6063GR — Green
- GS-6063BLK — Black
- GS-6063WHT — White
- GS-6063SIL — Silver
- GS-6063YL — Yellow
- GS-6063BR — Brown

K.C.-O.C. Doz. JOK $12.00

SPINNING FLY, "Worden's". The nearest approach to a live bug ever produced. These are not only the lightest action lures made but also have proven to be the deadliest fly rod lures yet devised. In the air they spin violently, resembling a flying bug. On the water they flutter with the slightest movement perfectly imitating a struggling bug. Ideal for Trout, Crappe, Bass, etc. **Packed one dozen on counter display card.** Length 1¼", wt. 1/90 oz., Size 10 tied with hackle. Assorted or straight colors as follows:

- GS-100-10RC — Royal Coachman
- GS-100-10MF — May Fly
- GS-100-10BH — Brown Hackle
- GS-100-10BG — Black Gnat
- GS-100-10GH — Grey Hackle
- GS-100-10WM — White Miller

K.C.-O.C. Doz. UEK $6.00

ASSORTMENT

	K.C.-O.C. each	
No. GS-100-10ASST .	UEK	$6.00

Size 6, Length 2½", wt. 1/65 oz. Assorted or straight colors as follows:

- GS-1006RC — Royal Coachman
- GS-100-6MF — May Fly
- GS-100-6BH — Brown Hackle
- GS-100-6BG — Black Gnat
- GS-100-6GH — Grey Hackle
- GS-100-6WM — White Miller

K.C.-O.C. Dozen LUO $7.20

ASSORTMENT

	K.C.-O.C. each	
No. GS-1006ASST	LUO	$7.20

★ Sept. 11, 1954

THE NEW YORKER

Price 25 cents

Somerset County

Somerset County is another of the northern tier of Maine counties, its southern end a part of the fertile and industrial region of Central Maine and its northern reaches traversing a vast roadless area of rivers, lakes and forests extending into Canada.

The great Kennebec River flows southward for more than half its length within the borders of the county and in the northern part of the county are the headwaters of the St. John and Penobscot Rivers. The southern border of the county invades the famous Belgrade Lakes section of Central Maine.

Skowhegan is the name of the largest town and the county seat. It is the hub of a network of roads entering the county from various directions. From it the main roads lead north through the county to Jackman and into Quebec.

The center of a rich farmland area, Skowhegan is an up-to-date small city with modern stores, hotels, restaurants and other facilities and a residential area with many fine historic homes and tree-shaded streets. Leading industries are woolen goods, shoes, pulp and paper, canning, wood products and commercial activities.

Five miles from Skowhegan is Lakewood, world famous summer resort and summer theatrical center on the shore of Lake Wesserunsett. Its summer theatre dates from 1900 and it has achieved fame as "Broadway in Maine" because it annually attracts the leading stars of the New York stage and performances of Broadway hits.

Norridgewock, southwest of Skowhegan, was the original shire town of the county and is rich in Indian and historic lore. There still stands the early Congregational Church, the old county jail and the Danforth Tavern, where the old bar and ballroom remain intact. The trip from Norridgewock to Madison leads past the Old Point section, where Father Rale, missionary to the Indians, was killed in 1724.

Other towns in the southern corner of the county include Mercer, a little lumbering and farming village; Smithfield, between North Pond and East Pond on the

(Continued on Page 64)

ADEAWONDA CAMPS on Spring Lake

In the Famous Dead River Region

The ideal adult and family vacation camp, located on our beautiful 3½ mile private lake. Twelve thousand acre estate with 40 individual log cabin type cottages available for a week, month or season. Two recreation halls. Central dining

hall where our home cooked meals have become famous. Ideal for families. Services include supervision for preschool children, instruction in swimming, boating and canoeing, a playground, baby sitters, a registered nurse and completely equipped first aid room. Guests enjoy sailing, tennis, swimming, canoeing, boating, bicycling, mountain climbing, fishing and the summer theatres at nearby towns and "Lakewood". For music lovers a weekly concert of brass quartet, and ensemble works under the direction of Mr. Robert C. Shenk, for many years violinist with the New York Symphony and Philharmonic Symphony Orchestras. Our own mountains, lake and forest combine to offer the perfect restful vacation you desire. Accommodations by reservation only.

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presumably by the inter-molecular attractions across the surfaces of the metals when brought into contact.

►**Metal Pre-Treatment**—Before discussing glues which have been developed recently for the bonding of metal, it may be well to mention what pre-treatment of the metal itself is desirable. Traces of grease result in inferior or unsatisfactory wetting of the metal and consequently a thoroughly reliable method of degreasing is essential. Trichlorethylene vapor baths have been used for this purpose for many years and have given satisfactory results.

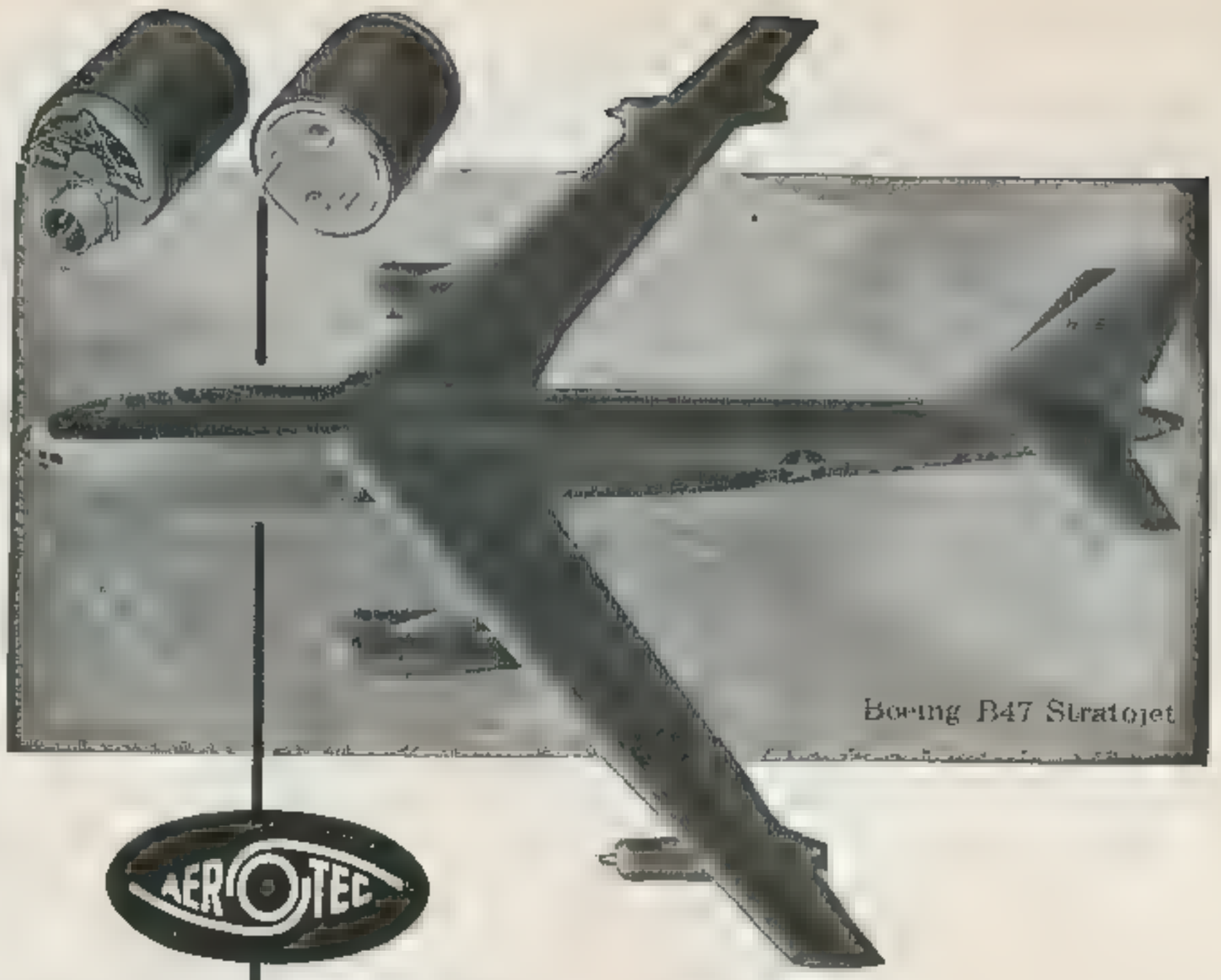
It is also important to remove any corrosion from the metal surfaces. For example, steel which is rusty or covered with scale or light alloys which are corroded may be sand-blasted, wire-brushed or rubbed vigorously with emery. Chemical cleaning agents may also be used, and a mixture of chromic and sulphuric acids is known to provide a suitable method for pickling aluminum alloys.

One of the most successful glues for metals was developed in 1941 by Aero Research Limited, Duxford, Cambridge. This glue, Redux, consists of a phenolic resin which wets the metal surfaces, together with a polyvinyl formal powder which gives the joint considerable toughness and ductility.

The two constitutents taken together satisfy all the conditions which we have proposed for metal glues. The polyvinyl formal has good mechanical properties, a high softening temperature and is resistant to most solvents. But even under the influence of heat and pressure, it does not wet metal surfaces satisfactorily. If the phenol formaldehyde resin is first brushed on the metal and then the powder sprinkled onto it, the metals may be strongly bonded by clamping them together and curing the resin at a suitable temperature, e.g. at 140-150 deg C. for 15-20 minutes. The liquid resin makes possible the wetting which is essential for good adhesion and then it polymerizes into a hard solid material resistant both to solvents and to weathering.

►**Rubber to Metal**—A recent development of the Redux process has been for the bonding of rubber to metal. Hitherto this has been carried out by brass-plating the metal, followed by vulcanizing the rubber. Since it is difficult to brass-plate many metals, the process has in practice been restricted mainly to bonding rubber to mild steel. By means of Redux, vulcanized natural or synthetic rubbers may be bonded to light alloys, stainless steel, etc. The rubber is first treated by immersing it for a few minutes in concentrated sulphuric acid, followed by washing, drying, and application of the Redux adhesive.

The effect of the concentrated acid


Boeing B47 Stratojet

AEROTEC

M818 DIFFERENTIAL PRESSURE SWITCH

Specified by Boeing Engineers for the Boeing B47

Manufacturers like Boeing find Aerotec Pressure Switches built to exacting specifications for aircraft such as the B47 Stratojet, where performance qualifications are most demanding

Now in production, Aerotec M-818 is vibration resistant up to 500 cps with 10 g's acceleration. It is capable of withstanding surge pressure of 120 psi., without change in setting. Rated for 28 volts DC, 3 amperes inductive, up to 45,000 feet.

All M800 series Aerotec switches are available for use with nitric acid, liquid oxygen, water, alcohol, octane and hydraulic fluids.

Thermix representatives, chosen for their engineering background and years of experience in the aircraft industry are ready to serve you and would welcome your inquiries.

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Designers and Manufacturers of Automatic Controls; Valves: Regulating, Reducing, Relief and Check Types; Pressure Switches: Gage, Altitude, Differential, Absolute Types; Float Switches: Top, bottom or side mounted.

can be used for handling ever increasing airframe components subcontracts, such as large fuselage sections, cargo doors, floor beams and other assemblies for the Boeing C-97 Stratofreighter, and large external fuel tanks designed by Ryan for the B-47.

A large portion of the firm's research and development work is now taken up on the AF-Navy XQ-2 jet-propelled pilotless target plane, on which Ryan is doing both electronic guidance and airframe design.

The Metal Products branch was the source of Ryan's biggest sales volume and earnings, ($6,863,962 in fiscal 1950) with leading aircraft engine makers joining the plane builders in becoming customers for the firm's specially designed exhaust systems. A new source of exhaust system business was for new Army tank engines. Replacement and spare parts of exhaust systems constitute a healthy volume during the service life of airplanes and engines.

A lot of Ryan's exhaust systems experience proved handy when the company took on subcontracts for General Electric's J-47 turbojet building stainless steel exhaust cones, tail-pipes, burner liners and other assemblies. This department is also at work on rocket motors and guided missiles components.

By Feb. 1, there were 2824 employes on the payroll, and the figure is still rising

This Subcontractor Was Easy to Find

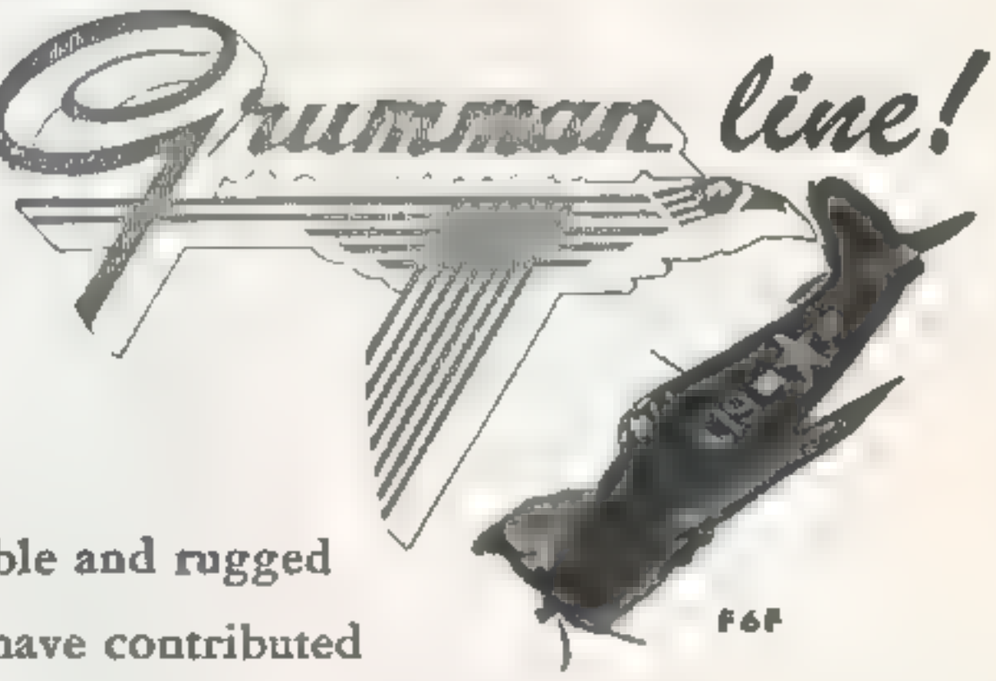
A flood of Air Force business has put a Buffalo, N. Y., equipment manufacturer in the curious position of being a subcontractor on its own product.

The company is A. E. Bausenbach, Inc., manufacturer of metal containers in which jet engines are hermetically sealed for shipping or storage. Recently (AVIATION WEEK Mar. 5) the Air Force announced a $3,070,624 order for the containers. But instead of going to the Bausenbach company, the prime contract went to its big neighbor, American Locomotive Co., Dunkirk, N. Y.

Here's why: The Air Force requires posting of a performance bond by a contract recipient. In this case, the bond would have been larger than the Bausenbach firm's net worth. Therefore, the contract was negotiated in the name of American Locomotive Co.

As subcontractor, Bausenbach will handle about $1 1 million—or 36 percent—or the $3,070,624 Air Force order. The other 64 percent will be handled by American Locomotive Co., and that, according to Arthur E. Bausenbach, president of the Buffalo firm, is "a plain case of the tail wagging the dog."

DISTINGUISHED AEROTEC FAMILY OF Controls KEEPS PACE WITH A famous Grumman line!



Dependable and rugged Grumman fighters have contributed greatly to Naval air strength for many years. On these fighters, as well as Grumman's attack and amphibian aircraft, Aerotec controls have been specified in increasing quantities. The latest F9F utilizes Aerotec float controls, valves, and pressure controls.

Grumman's latest planes, still shrouded in security, will employ Aerotec controls.

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Jay Engineering Company
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Designers and Manufacturers of Automatic Controls; Valves: Regulating, Reducing, Relief and Check Types; Pressure Switches: Gage, Altitude, Differential, Absolute Types; Float Switches: Top, bottom or side mounted.

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for

LONG-RANGE MILITARY AIRCRAFT PROGRAM

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Unusual opportunities for Aerodynamicists, Stress Engineers, Aircraft Designers and Draftsmen, and specialists in all phases of aircraft engineering. Engineering skills other than aircraft may be adaptable through paid training program. Also openings for

Recent Engineering College and Technological Graduates

Long-range military program offers fine chance for establishing career in aircraft while aiding defense effort. Transportation and established training time paid. Salaries commensurate with experience and ability.

Please include summary of education and experience in reply to:

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SECTION 3

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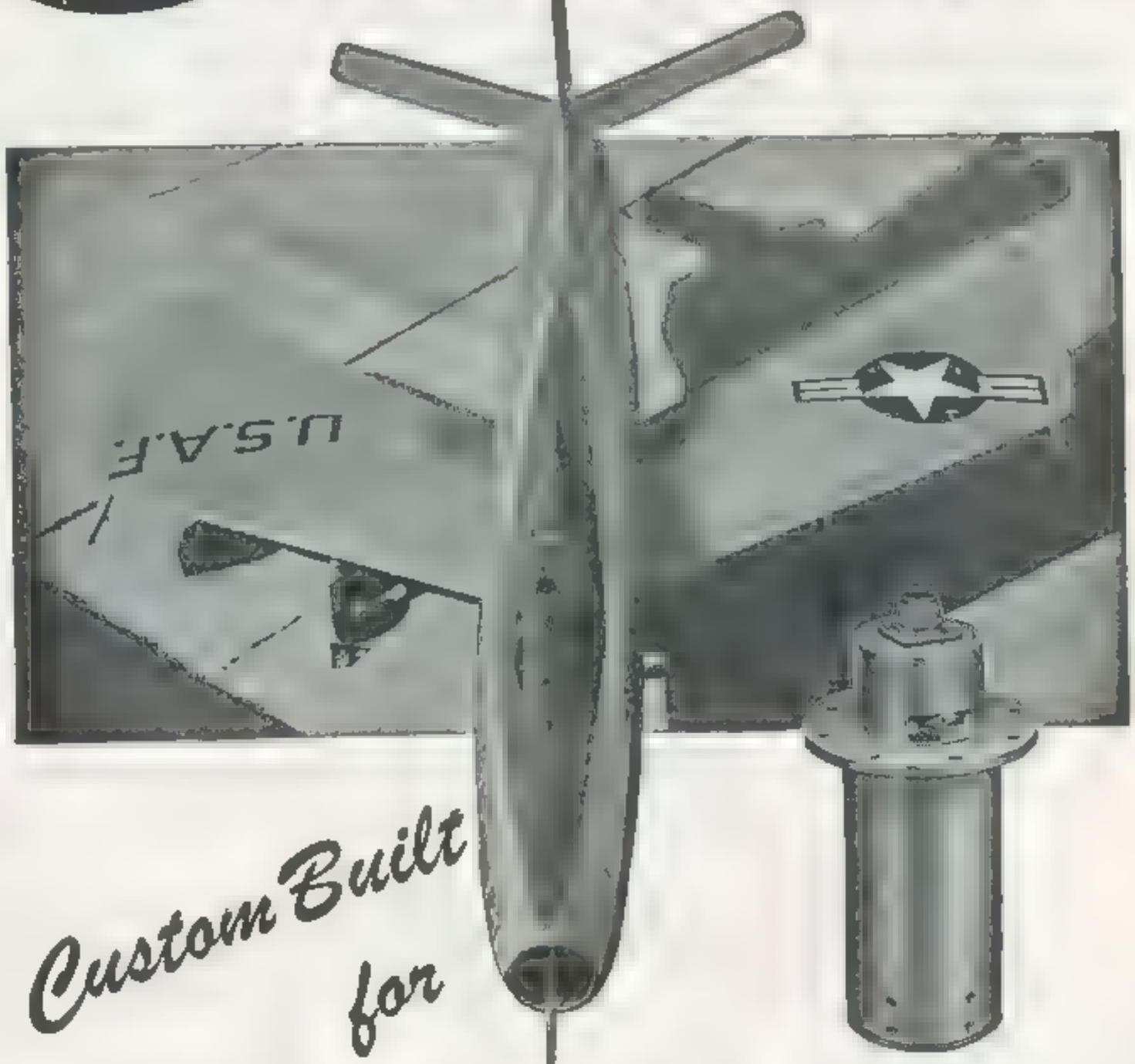
AEROTEC FLOAT SWITCHES...



Custom Built for

REPUBLIC'S LATEST JET FIGHTER

Republic's XF91 Interceptor utilizes 20 Aerotec Float Switches to assure dependable indication and control of propulsive fuels.

Aerotec's proved record of efficient automatic controls on the thousands of F47's and F84's that have been and are in service earned its consideration when the XF91 was in the development stage.

The XF91 is one of the many Navy and Air Force fighters that advantageously employ Aerotec's policy of designing a specific control for each individual problem.

Whether the application calls for float switches, valves, diaphragm or bellows pressure switches, Aerotec's representatives throughout the country, specially picked for their knowledge of the aircraft industry, are ready to offer assistance on any automatic aircraft control problem you may have.

Address all inquiries to The Thermix Corporation.

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COMPLETELY INTEGRATED SYSTEM WILL

AUTOMATICALLY CONTROL CABIN PRESSURE AND TEMPERATURE FOR

MAXIMUM PASSENGER COMFORT FROM SEA LEVEL TO OVER 20,000 FEET!

Once again AiResearch is the choice! Consolidated Vultee Aircraft Corporation has designated AiResearch pressurizing and air conditioning for its new Convair Liner 340 air transport.

This is the third new high-altitude commercial air transport announced in the United States in the past year to be *completely* pressurized and air conditioned by AiResearch. In addition to the Convair Liner 340, these advance aircraft types are the Martin 4-0-4 and the Lockheed 1049 series Super Constellation.

The systems designed and built by AiResearch for the Convair Liner 340 include 23 different items such as cabin superchargers, cooling turbines, heat exchangers, water separators, complete electronic temperature control systems, cabin pressure control valves, and selector controls.

Completely integrated, the system will control cabin altitude and air conditioning automatically from sea level to over 20,000 feet, *including air conditioning while the airplane is on the ground.*

AiResearch is the only company supplying such *complete* pressurizing and air conditioning systems from a single source. Today AiResearch systems, or component parts, are used on *all* high-altitude commercial transports built in the United States.

AiResearch
THE GARRETT CORPORATION

• ***AiResearch — Specialists in the design and manufacture of equipment involving the use of high-speed wheels — is a leader in the following major categories:***

Air Turbine Refrigeration • Cabin Superchargers • Gas Turbines • Pneumatic Power Units • Electronic Temperature Controls
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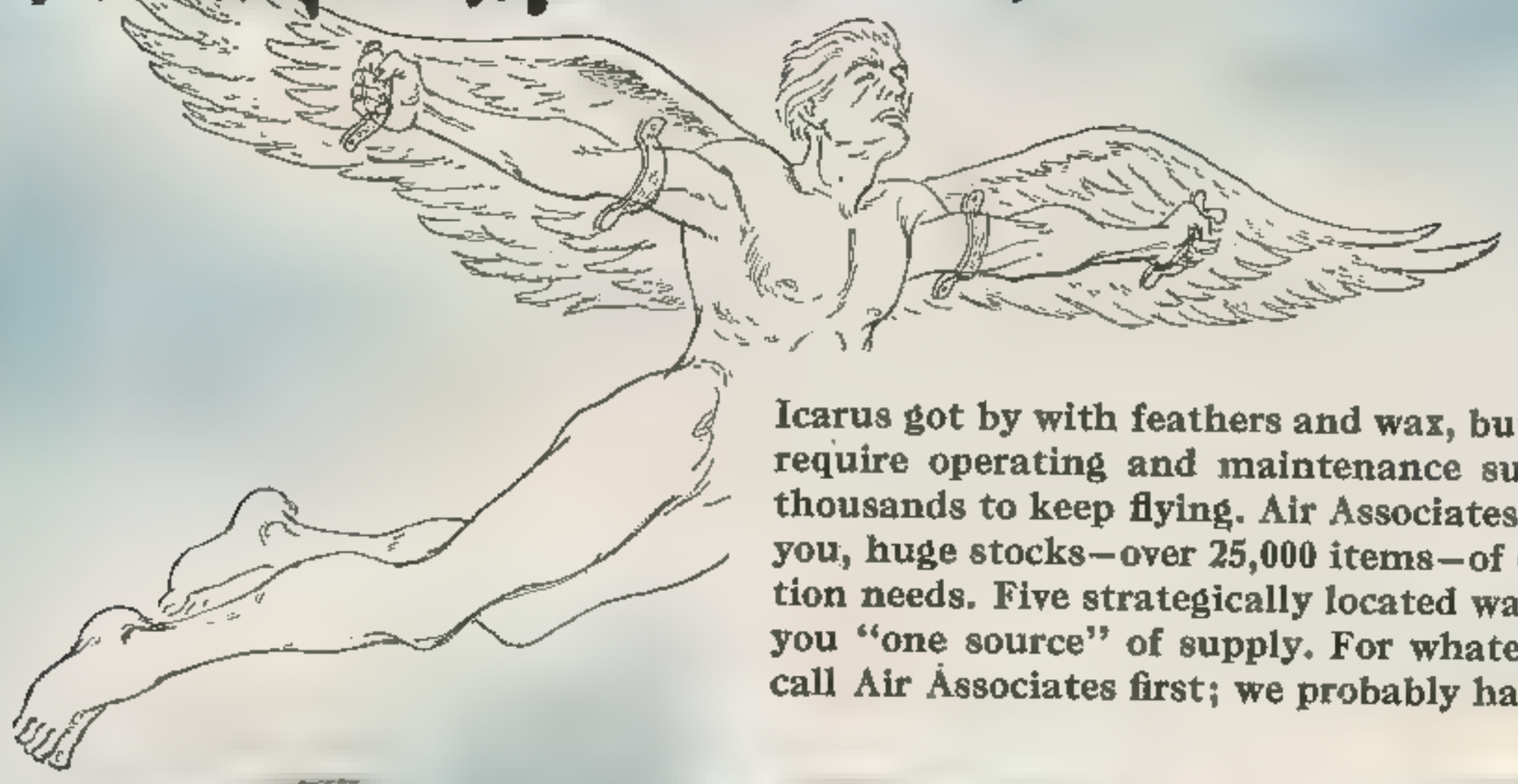
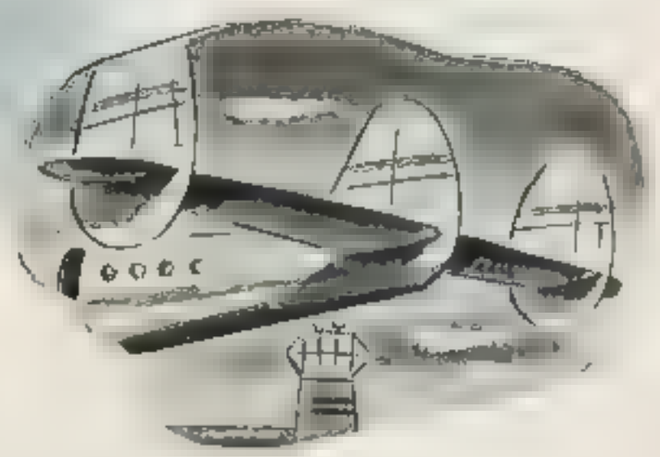
AiResearch Manufacturing Company, Dept. E-6, Los Angeles 45, California

It takes More than Feathers today!



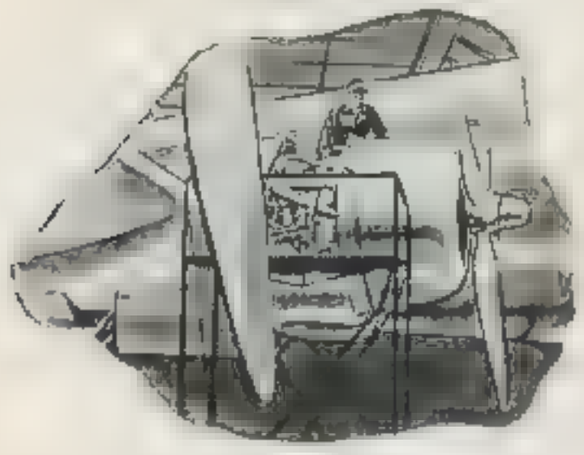
Icarus got by with feathers and wax, but planes today require operating and maintenance supplies by the thousands to keep flying. Air Associates has them for you, huge stocks—over 25,000 items—of everyday aviation needs. Five strategically located warehouses offer you "one source" of supply. For whatever you need, call Air Associates first; we probably have it in stock!

Saturday night, airline style. This bath and polish requires solvents, paints, polishes and waxes—and Air Associates has them for you.



No feathers on this tail. It needs cables, turnbuckles, bushings and other parts to keep working. Air Associates has those, too!

Make Air Associates your warehouse for everything air lines need. Complete stocks of tires, tubes, and brakes mean faster service!



Engines need hundreds of hoses, clamps, fittings, switches, wires and other items for routine maintenance. You can get them at Air Associates!

Seat belts, ash trays and oxygen equipment for safety and comfort are supplied by Air Associates for airlines everywhere.

Air lines rely on Air Associates for "up front" equipment . . . navigation instruments, fuses, bulbs and many other vital items.

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Sweeping past the 1,000,000th hour

OVER a target in Korea, on a flight from an American base — at home, in Alaska, in Japan or somewhere in Europe, or from the deck of a Navy carrier, an unknown jet pilot has just made aviation history.

Reports just tabulated from fighter squadrons all over the world record that Allison-powered jets recently swept past the 1,000,000th hour mark to establish another "*first*" for these famous Allison J33 and J35 Turbo-Jet Engines.

More than 10,000 of these high-powered, battle-proved engines are piling up a record of availability and reliability never before equaled. They lead the world in experience—in actual time in the air. And, even more important these Allision engines have met *and have exceeded* every military specification for operation and performance—*under the stern test of combat!*

GM
GENERAL MOTORS

Builders of J35 Axial, J33 Centrifugal Flow Turbine Engines, the J35 A-23 Super-Jet and T40 Turbo-Prop Engines

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the finest, most frequent

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12 ONE-STOP FLAGSHIPS

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LV. 9.50 a.m PST	LV. 11:25 p.m. PST

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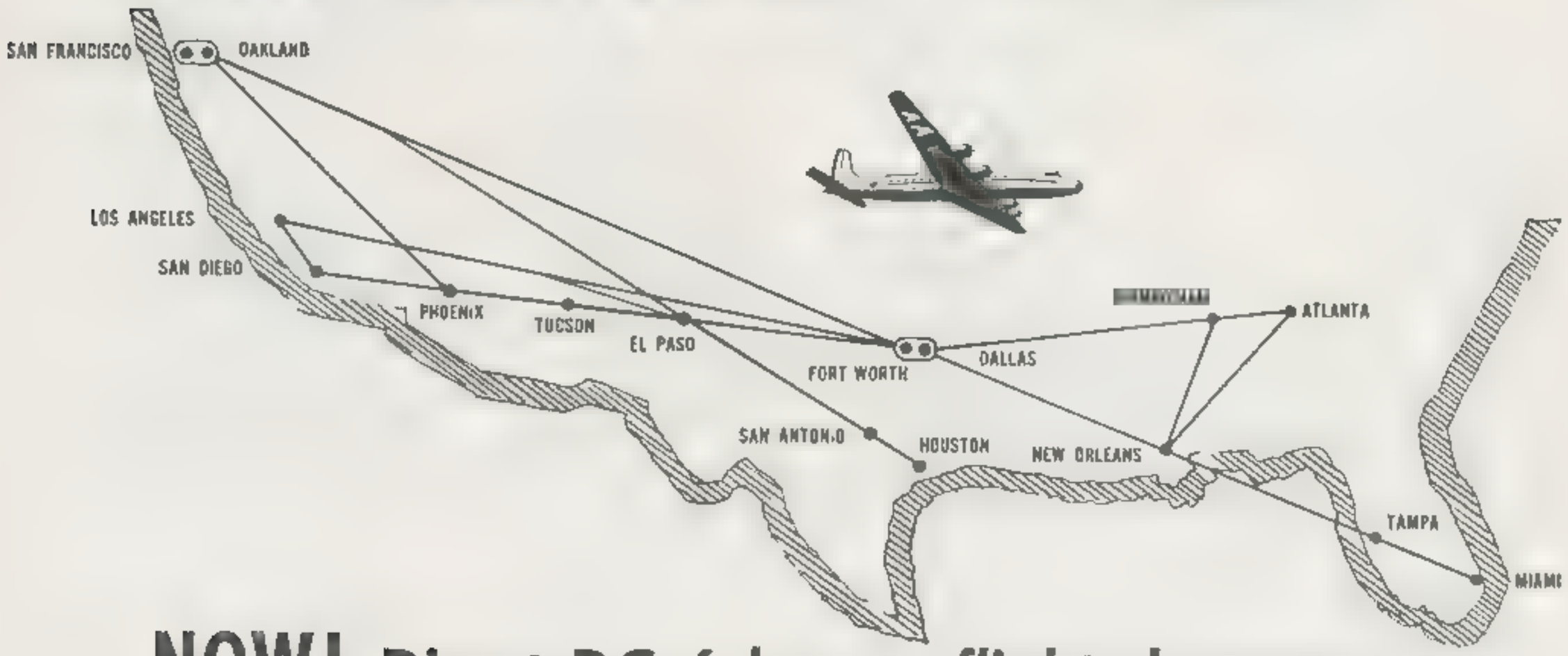
A NEW THRU SOUTHERN TRANSCONTINENTAL AIR SERVICE *WITHOUT CHANGE OF PLANES!*



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For the first time, five great airlines team up to offer southern travelers a finer, faster trans-continental service. The new Rockets between California and Georgia! The new Tradewinds between California and Florida! The new Arrows between the West Coast and the Texas Gulf! All will feature the luxury of DC-6 airliners and be direct through flights *without any change of planes!*

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The finest service ever between America's largest cities

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The most frequent nonstop service with 25 DC-6 Flagships each weekday

Take your pick! American's new commuter service features the greatest number of nonstop departures to New York—with return flights to Chicago every hour on the hour during the day. In addition, fast DC-6 Flagships with pressurized cabins make this service as luxurious as it is convenient.

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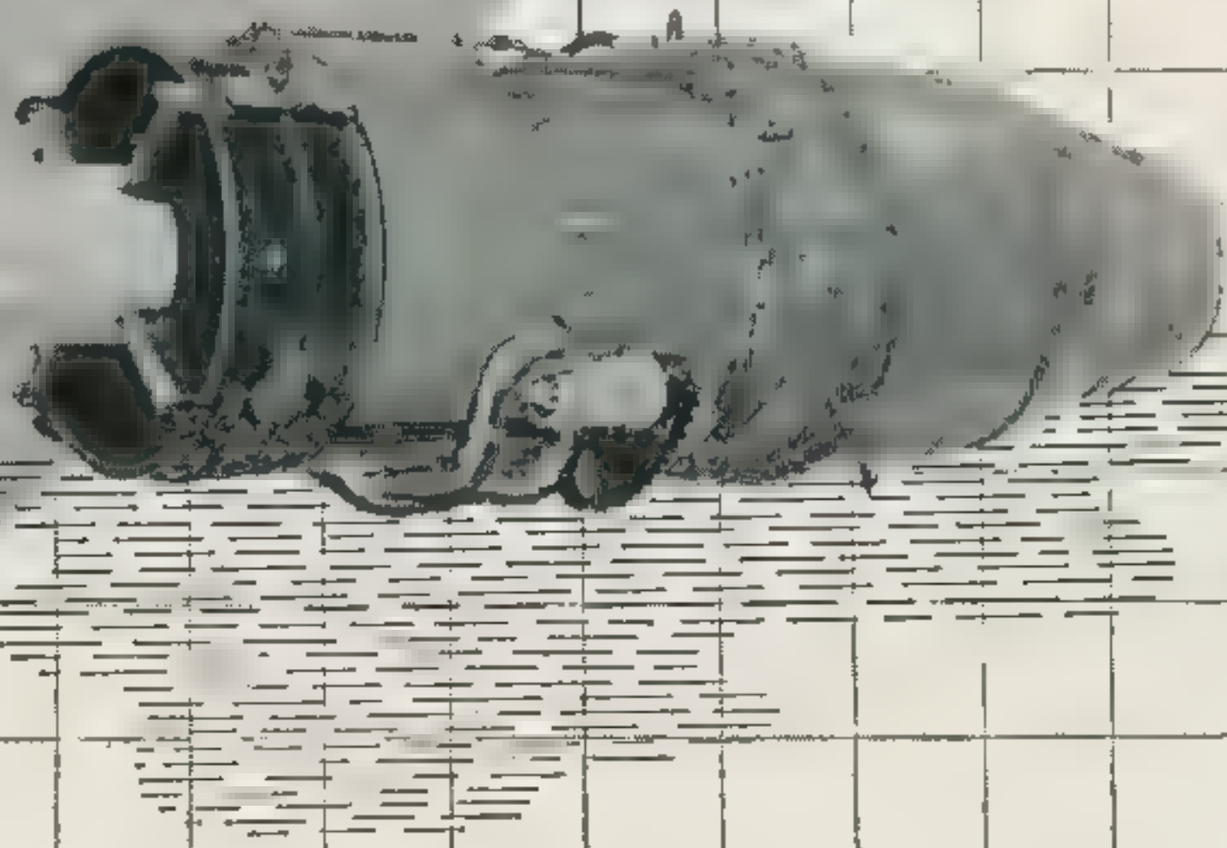

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POWER
PERFORMANCE

ARMSTRONG SIDDELEY MOTORS LIMITED, COVENTRY, ENGLAND. Members of the Hawker Siddeley Group

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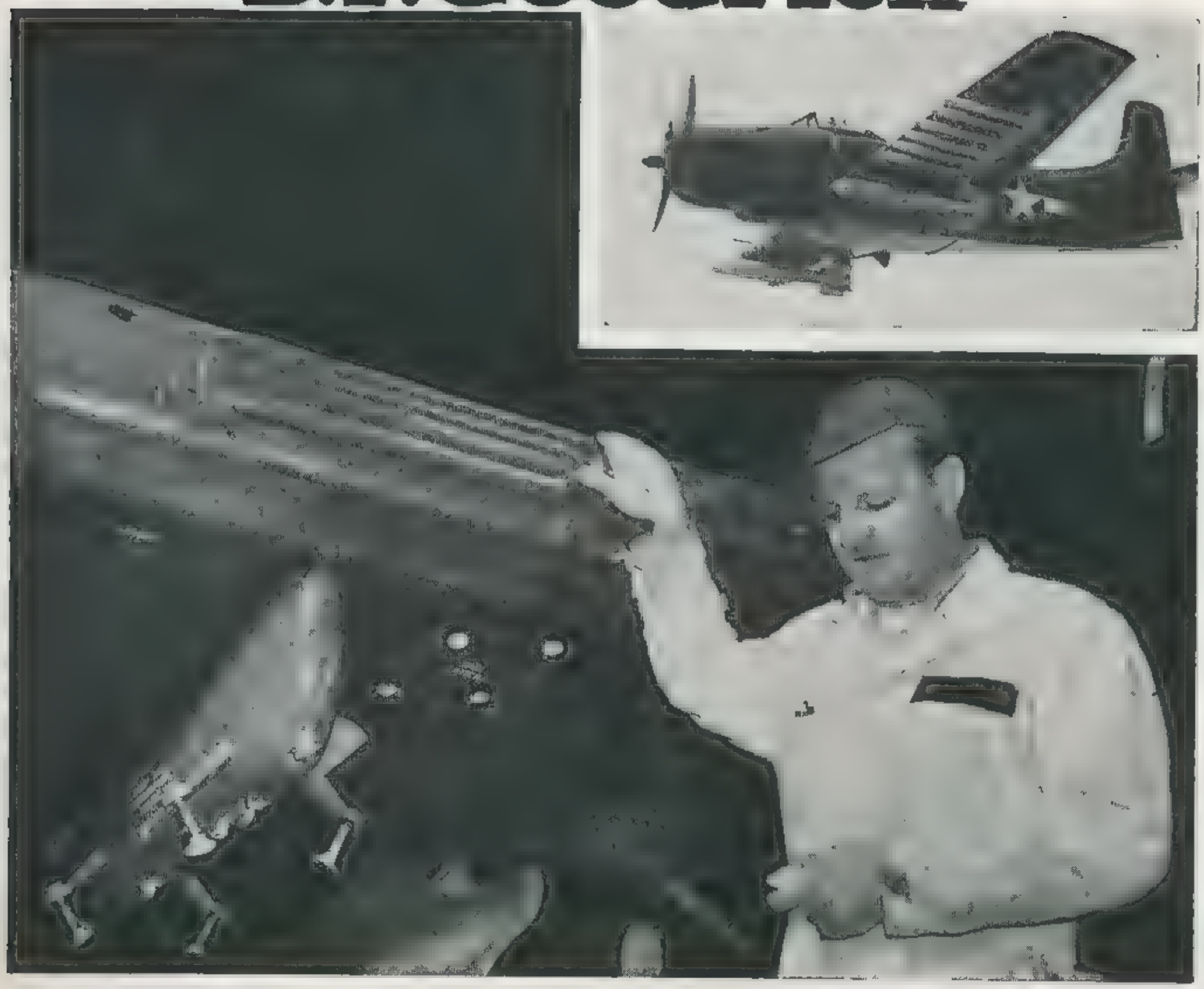


New De-Icer for fast night attacker proved in Korea

DOUGLAS SKYRAIDERS attacking with the fleet in Korea were forced to fly low at night because of the danger of ice forming at higher altitudes. They needed De-Icers—and fast.

De-Icers had never before been used on this type of high-speed plane. The Navy and Douglas brought the problem to B. F. Goodrich.

There were two big questions. Would De-Icers stay on at these high speeds? Would they upset the flight characteristics of the plane?

Within 32 days, BFG engineers in co-operation with Douglas designed, installed, and test-flew a new type of De-Icer on a Skyraider. The entire inner surface—not just the edges—of the new De-Icer was cemented to the wing. A screwed-on fairing strip was added for further reinforcement. Tested in a high-speed dive, the new De-Icers came through without a sign of damage. They had no appreciable effect on flight characteristics

Quickly put into production, the De-Icers were soon seeing service over Korea, where they have done an excellent job.

These new BFG De-Icers operate safely at 15 to 18 lbs. pressure. They are light in weight, yet tough and long lasting. Take up little space for their plumbing. Are easily maintained. They are now proved practical for high-speed single engine planes as well as twin engine or larger.

The De-Icer, safest ice-removal device for airplane leading edges yet developed, is another product of B. F. Goodrich aeronautical research and engineering. Let us help you design De-Icers into your single engine planes. Write: *The B. F. Goodrich Company, Aeronautical Division, Akron, Ohio.*

B.F.Goodrich

FIRST IN RUBBER

Penobscot County

Penobscot County is a great diversified farming, industrial and recreational county in East Central Maine, bisected by Maine's largest river, the Penobscot, and containing the third largest city in the State, Bangor. The southern part of the county contains important agricultural and industrial areas, while the northern part extends into the forest areas of Northern Maine, with pulp, paper, lumbering and potato operations vying with hunting and fishing in economic importance.

Hub of the County is Bangor, "Queen City" of Maine, and the commercial and financial center for the northern and eastern section of the State. Sixty miles from the sea at beautiful Penobscot Bay, it is the head of ocean navigation on the Penobscot, site of an immense air base, junction of U. S. Routes One and Two, terminal of several railroads and connecting lines, and starting point for travel to Aroostook County, Mt. Desert Island, Mt. Katahdin, New Brunswick, Nova Scotia and to Moosehead Lake and the west from Eastern Maine.

The site of Bangor, at the junction of Kenduskeag Stream and the Penobscot, was an important Indian rendezvous before Champlain landed there in 1604 in his search for the fabulous city of Norumbega. Since then it has passed through some of the most colorful historic periods of any city in Maine, a meeting place of lumbermen, hunters, fishermen, trappers, settlers, traders and mariners of many nationalities. A century ago it was the leading lumber port in the world and decades later still ranked second.

Today Bangor is a beautiful city of modern stores, hotels and offices, with stately residences on wide, shaded streets and with scenic parks and parkways. It is a center of culture, education and religion, with splendid schools of all types, a famous theological seminary, patronage of music and the arts, an important public library, and various museums, theaters, and exhibits. Eight miles from Bangor, at Orono, is the University of Maine, with colleges of Arts and Sciences, Engineering, Forestry and Agriculture.

Although Bangor is primarily a commercial center, there are numerous diversified industries both there and across the river in Brewer, the products including pulp, paper, wood products, wood tools, machinery, snowplows, stoves, furnaces, building material, metal products, brick, cigars, fish, meat and agricultural packs, clothing, mattresses, sportsman's equipment and furs.

(Continued on Page 118)

True Maine Hospitality

in the center of the scenic sports Region of Northeastern Maine

THE BANGOR HOUSE
BANGOR, MAINE

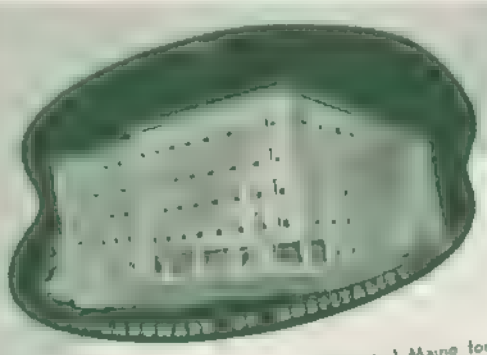
Ideal stopping place for sportsmen and visitors to northern Maine.

A friendly hotel, conveniently located near the city's shopping center and its Railroad, Bus and Air Terminals. Large, comfortably furnished rooms from $2.50 day. Delicious meals. Air-cooled Cocktail Lounge.

Home of Rotary, Kiwanis and Zonta Clubs

ALLEN HOTEL COMPANY

OPEN ALL YEAR — Frank F. Allen, Mgr.



Conveniently located in Central Maine for day trips to Bar Harbor or the Moosehead Region — the gateway to Northern and Eastern Maine

Comfortable rooms each with bath, shower or running water

FRIENDLY SERVICE • SEAFOOD SPECIALS
• COCKTAIL LOUNGE •

Penobscot Hotel

BANGOR • MAINE

BANGOR

Queen City of the East...

Bangor, the gateway to northern and eastern Maine, is located on the west bank of the Penobscot River only a few miles from the Atlantic Ocean. First settled in 1769, and incorporated as a city in 1834, it has now become a prosperous and progressive community with approximately 36,000 inhabitants. It is served by all methods of modern transportation and has long been recognized as the financial and commercial center for the constantly growing eastern and northern sections of Maine.

Bangor offers exceptional educational advantages, and Bangor's high school ranks with the finest in New England. In addition to the public schools, there are John Bapst high school, parochial, private and commercial schools. The University of Maine is in Orono, eight miles from Bangor.

It is possible to drive by automobile within an hour to many of Maine's beautiful lakes, streams, brooks, mountains, and to the seashore where recreation awaits all members of your family. Because of the many fine hotels and restaurants within Bangor, it has for many years served as the headquarters of numerous hunting and fishing parties from practically every section of the country.

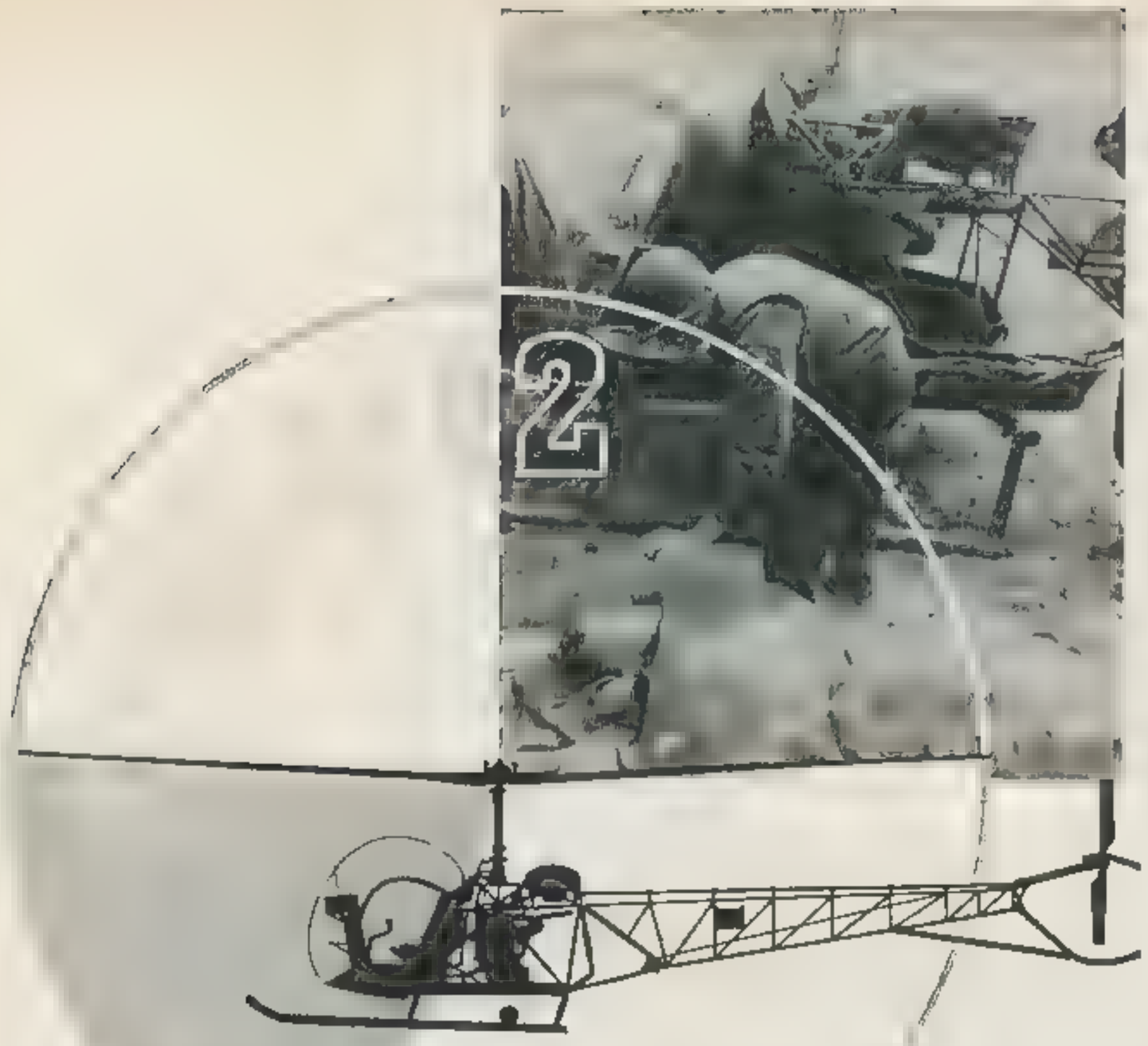
Bangor is proud of its many fine churches, parks, and theatres; two daily newspapers, a morning and evening; and four radio stations furnishing complete facilities for advertising publicity, and emanation of news.

Bangor, in the heart of Vacationland, invites you to come for a visit or come here to live.

For further information write to the

BANGOR CHAMBER OF COMMERCE

23 FRANKLIN STREET



A MATTER OF MINUTES

... BY HELICOPTER

In Korea, battle wounded often reach a hospital faster than a traffic accident victim in metropolitan cities.

Combat records show that combat casualties have been evacuated by helicopter to a batallion or regimental hospital within 20 minutes after being wounded. This remarkable "ambulance" service is the contribution of helicopters such as the H-13D and the HTL-4, built by Bell Aircraft for the Army, Navy and Marines.

These maneuverable Bell helicopters are officially credited with saving the lives of 3,000 wounded U. N. troops in 6 months.

The majority were wounded so critically that evacuation by any other means could have been fatal.

While these helicopters have done almost the unbelievable...they are not robots. They need men to fly them. Army and Marine pilots continuously operated their helicopters dangerously close to enemy fire, repeatedly risking their own lives to help save the lives of others.

Bell Aircraft invites the application of qualified helicopter engineers.

BELL Aircraft

'Beauty' Treatment For Stratojet's Skin

Boeing Airplane Co. is making sure that aluminum alloy sheet used for the B-47 Stratojet's skin meets the high standard of aerodynamic cleanness required for this fast bomber.

It was no secret that skin imperfections could measurably cut the top speed of the modern, jet aircraft, so Boeing wanted to insure that the thin coating of corrosion-resistant, near-pure aluminum on the aluminum alloy sheet would be protected from time of warehouse receipt to the end of the production line.

What was wanted was a skin covering that would resist surface damage from sliding one sheet over another, flying chips, heat-treat, deep drawing, pneumatic hammer operations, and other fabrication processes. Studies by Boeing's process labs and consultation with Minnesota Mining and Mfg. Co. resulted in Orange Dye No. 968 —a liquid spray applied with a giant atomizer.

First coat of this plastic lacquer is made at the warehouse. New lacquer is applied before and after each manufacturing operation and the result is a final smooth skin. Removal of the lacquer is easy, the coating peeling off like tape.

Modified Camera Takes Dual Record

Mechanical and oscillograph records may be made simultaneously of a subject under test by modifying Kodak or Eastman Type III highspeed cameras to take a second lens at 90 deg. to the normal lens. Both records are made on the same film.

Since the film travels vertically, the horizontal deflecting circuit alone is used. The film speed, indicated by the edge-marking argon lamp in the camera, provides a time base if necessary. Exposure of the oscillograph trace is continuous, and on any given picture frame, the midpoint from top to bottom of the frame represents a time interval equal to the reciprocal of the picture frequency. This is five times the picture exposure time.

The trace may be placed any desired distance within the width of the picture field, where it will not conflict with the subject being photographed. An oscillograph providing a total accelerating potential of 10 kv. or higher is recommended for use with the camera.

The camera modification can be added to Kodak highspeed cameras or Eastman highspeed cameras Type III at a charge of $500 plus cost of the extra lens.

DEEP SEA
FISHING PARTIES
CASCO BAY TOURS
TUNA FISHING
CLAMBAKES
Seashore or Inland
CAPT. JAMES LUMSDEN
Falmouth Foreside
Portland Maine
Tel. Portland 4-5128

HOPE FARM INN on Casco Bay
Colonial homestead, baths, hot and cold water, excellent food. Thoughtful consideration for your comfort and convenience. By auto Route 1 to Brunswick, by rail or bus to Brunswick. Folder sent on request.
Mr. and Mrs. S. C. Breese, Mere Point Rd., Brunswick, Me.

CAPE COTTAGE HOTEL
CAPE COTTAGE, MAINE
On beautiful Cape Shore, Route 77, 3 miles from Portland. 20 minute bus service to door. Fine sandy bathing beach. [illegible] walk to Portland Head Lighthouse. Close to all activities
"Famous for our excellent table"
C. W. FIELD, Manager

AVENUE HOUSE
Fifty yards from WATER'S EDGE on beautiful
PEAK'S ISLAND in CASCO BAY
Summer Playhouse nearby
Booklet and rates on application
HENRY S. HOAR, Owner-manager
PEAKS ISLAND MAINE

Homewood Inn and Club
1712
Ideally situated 12 miles from Portland
On the Shores of Famous Casco Bay
Sixteen cottages with baths, sleeping rooms, fireplaces, and most of them living rooms. Dining room in the Inn serves the finest in New England cookery. New recreation building with country store
Tennis, swimming, boating, billiards, wooded trails and a modern library
New Cabin Cruiser for daily trips, fishing, sightseeing Casco Bay and Ocean at reasonable prices
Rates from $8.00 per day, American Plan
SEASON JUNE THRU OCTOBER
Write for descriptive booklet
Owners and Managers, Doris and Fred Webster
YARMOUTH Yarmouth 380 MAINE

Boeing B-1 flying boat of 1919 vintage, first internat onal mail plane, is dwarfed by U S. Air Force's new Boeing C-97 Stratofreighter transport.

Out of the past comes the future

Boeing celebrates its 35th anniversary this year. Not old by ordinary standards; but in aviation, it's a whole age — virtually the age of flight.

During those 35 years, Boeing engineers and production men have seen — and played an important part in — the transition from stick and wire "flying machines" to today's comfortable, speedy, commercial transports. They have contributed to the nation's defense with a variety of military aircraft — from tiny fighters of the 20's to the B-17 Flying Fortress and B-29 Superfortress of World War II

Today the company still pioneers — with planes like the huge Stratofreighter and Stratocruiser, the B-50 Superfortress, the 600-mile-an-hour B-47 Stratojet, the soon-to-appear B 52 eight jet bomber and highly secret guided missile projects.

Boeing regards the experience gained during its first 35 years as a steppingstone toward continued progress — a solid foundation for meeting the challenges that lie ahead.

For the Air Force, Boeing builds the **B-47 Stratojets, B-50 Superfortresses and C-97 Stratofreighters;** and for the world's leading airlines, Boeing has built fleets of the new twin-deck Stratocruisers

BOEING

Acclaimed by 400,000 Ocean Travelers!

In the two short years since the Boeing Stratocruiser made its first commercial passenger flight, it has become the undisputed choice of passengers in over-ocean travel

Today the great twin-deck super-transport is as familiar a sight in Rio and London, Honolulu and Tokyo as in New York, Seattle or Los Angeles

In operation on four major airlines, Stratocruisers have made 15,500 trips, carried 800,000 passengers, and flown more than 45,000,000 miles *On over-ocean routes alone, they have transported nearly 400,000 people!*

The tremendous popularity of the Stratocruiser is easy to explain. More spacious than any competing aircraft, it offers ample room for passengers to move about in main cabin or lower-deck lounge. The finest altitude conditioning in any transport permits smooth, high level flight with complete comfort. And Boeing-designed seating, lighting and dressing-room facilities add to the pleasure of Stratocruiser travel

No other plane-builder can match Boeing's four-engine aircraft experience, proved in the performance of the early transocean Clipper flying boats and Stratoliners, the B-17 Flying Fortresses, B-29 and B-50 Superforts and C-97 Stratofreighters. People know the integrity of Boeing research, design and engineering. They like to fly in Boeing built aircraft.

• Mechanical, electrical, aeronautical, civil engineers and physicists! Boeing has exceptional openings for you! Write Engineering Personnel, Boeing Airplane Company, Seattle 14, Washington

BOEING

STRATOCRUISER

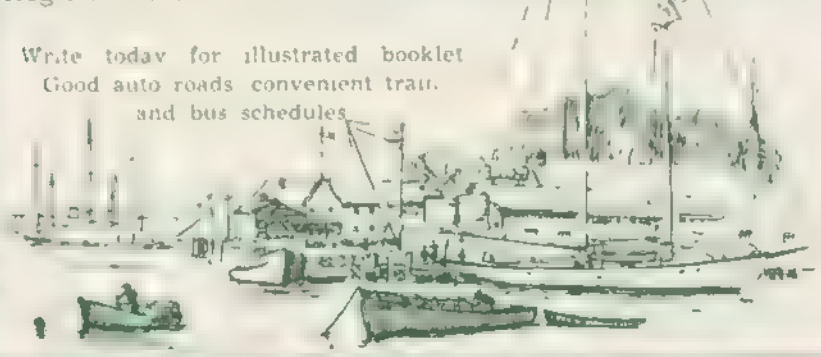
The Boothbay Region

BOOTHBAY — BOOTHBAY HARBOR — SOUTHPORT

The Boothbay Region is a land of surf-ringed headlands, ... loped little beaches, deep harbors and piney hills mirrored in quiet lakes

A broad peninsula thrusting out into the cool Atlantic Ocean, bounded on its sides by two great rivers, the Region is ideally located to furnish the sports, healthful living and fun of a sea-side vacation. Modern hotels and thriving business sections are set against a 300-year-old background of stirring history. Secluded by its geography and location, ... the Boothbay Region attracts a conservative and discriminating clientele

Write today for illustrated booklet
Good auto roads convenient train and bus schedules



BOOTHBAY REGION CHAMBER OF COMMERCE

BOOTHBAY HARBOR MAINE

Spruce Point Inn

A. LeROY RACE, Proprietor

Ideally located among the evergreens and birches of a beautiful peninsula—a private eighty-acre reservation

Attractive modern cottages with full hotel service

Two championship Tennis Courts, Golf, Shuffleboard, Sailing, Fishing, Bathing, Croquet, Woodland Trails, Moorings for boats, Private Pier with deck chairs.

Excellent table specializing in Maine seafood

For booklet and rates write

SPRUCE POINT INN BOOTHBAY HARBOR, ME

Go Topside for a Land Cruise

Boothbay Harbor Maine

Comfortable quarters at sensible rates. Near a l ... vities and dining places. All water and land sports; theaters.

Write Bob Boynton for leaflet

The Algonquin Inn

Where Where the Ahnaks ...

JUNE 30 TO SEPTEMBER 8

Bertha and Ed Harris Capitol Island, Maine, Ownership-Management

THERE'S A REASON FOR *United Air Lines*

TWENTY-FIVE SUCCESSFUL YEARS

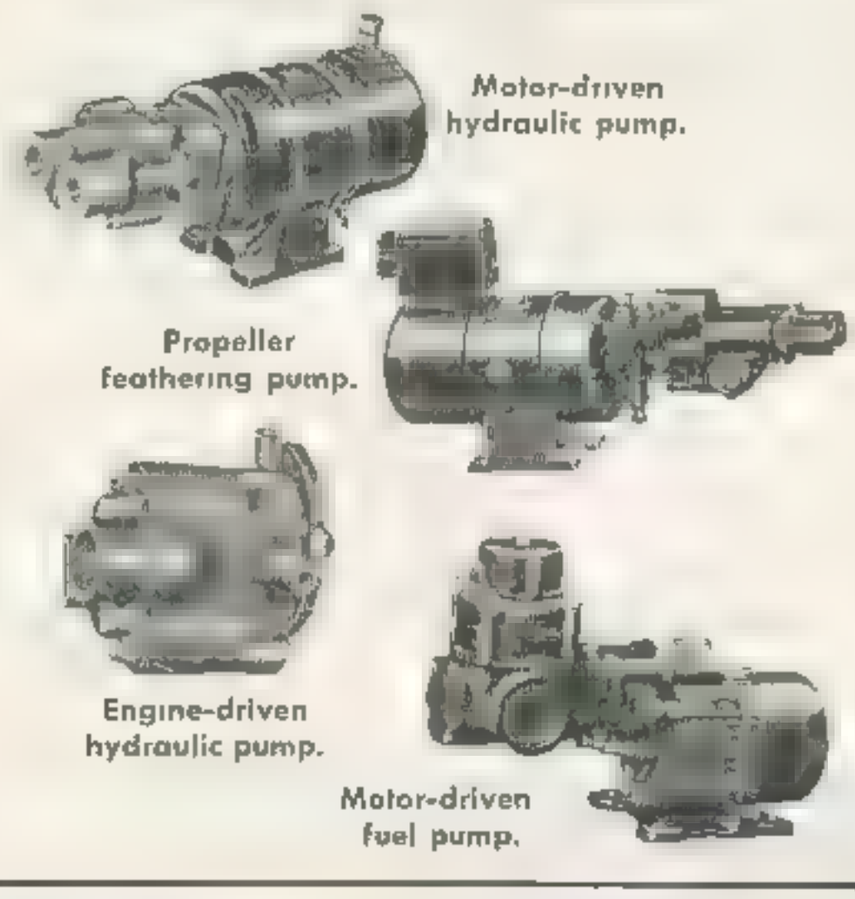
From a single seater, open cockpit mail plane, to a vast fleet of passenger and cargo planes that have flown a phenomenal 599,320,000 revenue plane miles in 25 years is a record of which United Air Lines can be justly proud.

An important reason for this fine record is the continuing program of on-the-plane engineering tests that United began in its early days—tests to make certain that all equipment will deliver safe transportation under the most severe conditions.

Since Pesco first started to make hydraulic and fuel equipment for aircraft, Pesco engineers have worked closely with United Air Lines in the development of many of these products. Today, Pesco products are standard equipment on *every* plane that United flies.

Pesco is proud of this long association with United Air Lines. It is the kind of friendly, scientific cooperation that has helped to make aviation the world's fastest and safest form of transportation.

A few of the Accessories used on United's Fleet of Mainliners



engineering Pesco production

PRODUCTS DIVISION

BORG-WARNER CORPORATION

24700 NORTH MILES ROAD BEDFORD, OHIO

Telling the WESTERN AIR LINES Story

America's Oldest Airline Celebrates Its 25th Anniversary

ON APRIL 17, 1926, a postoffice truck rumbled across Vail Field in Los Angeles and drew up beside a little fabric-covered biplane. The driver got out and began to pile mail sacks in the forward cockpit. One of the sacks held a letter from George E. Cryer, mayor of Los Angeles, to Mayor Jimmy Walker of New York.

Presently the pilot, wearing helmet with goggles and warm leather jacket, sauntered over to give the plane a careful, last-minute check Satisfied, he clambered into the rear cockpit and signaled the mechanic to spin the prop. The Liberty engine burst into a roar, and the pilot taxied out for his takeoff.

And thus began a new chapter in the history of commercial aviation. For this was the first airmail out of Los Angeles—and it was carried by Western Air Lines

Meanwhile, another Western plane had taken off from Salt Lake City, carrying the first airmail into Los Angeles. Somewhere over Nevada, the two pilots passed

Western Air Lines has been in continuous operation since that day, and thus is America's Oldest Airline

★ ★ ★

During the twenty-five years that followed, Western pioneered the skyways of the West—was first to introduce scientific weather forecasting and modern two-way radio systems, first to achieve a 10-year perfect-safety record, first to offer low-cost air coach travel on the Pacific Coast. And Western's system has grown, until today it flies a 5000-mile route, serving 45 cities in 13 western states and Canada

★ ★ ★

Buchanan & Company has been Western's advertising agency since December, 1947.

Telling the Western Air Lines story has been an exciting job. It has been a story of constantly improving service... of faster flights and better schedules on Western's deluxe Convairs ... of lower fares on Western's big Coachmasters.

And we've had the satisfaction of watching Western's passenger traffic grow and grow, until it made an all-time record in 1950, after outstripping all other major airlines in its rate of growth over 1949.

BUCHANAN & COMPANY, INC.

Advertising

LOS ANGELES • SAN FRANCISCO • CHICAGO • NEW YORK

B.F.Goodrich

How to keep a fighter from blowing its top

THE NORTH AMERICAN F-86 "Sabre" has a pressurized canopy, with a rubber seal between the canopy top and the fuselage. High altitudes used to raise hob with this inflatable seal. Under the severe effects of high pressure on the inside, low pressure on the outside, it blew out.

B. F. Goodrich engineers tackled the problem, came up with a new idea in inflatable seals. They took knitted fabric, rubber-coated inside and out, and cured it to a soft rubber base. Under pressure this rubberized fabric (slack before inflation) increases the size of the seal many times, with almost *no stretching* of the rubber

As a result, it's like blowing up a paper bag instead of a toy balloon. The new seal inflates easier, with lower pressures—giving far greater protection against high altitude blowouts. It inflates with less pressure at *minus* 65° F. than the old-type seals required at *room* temperatures!

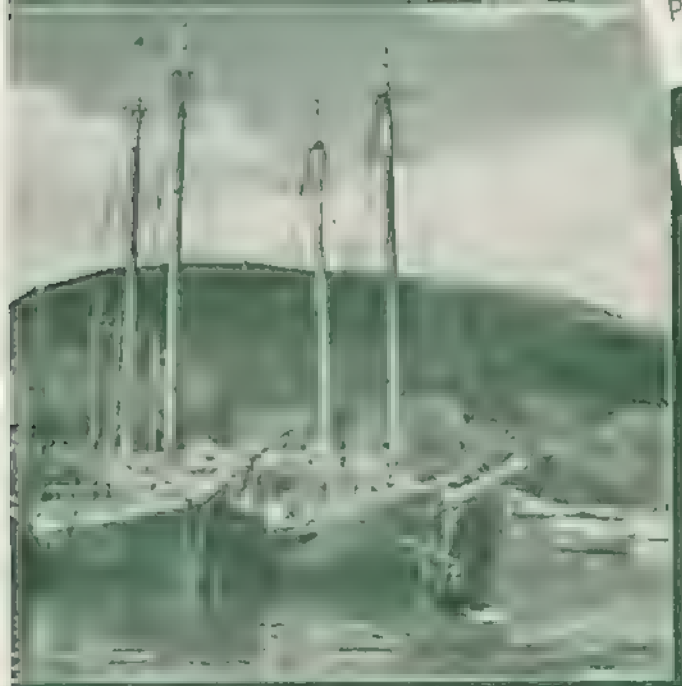
The BFG inflatable seal fits complex curves. It's more adaptable, tougher, more damage-resistant. Sealing and unsealing action is faster. Sliding wear and scuffing are minimized

The new seal has proved so superior that it has been adopted by the F7U, Banshee, B-45 and other planes as well as the F-86. In each case, it is tailored to the design.

If you have a sealing problem—or any other that rubber might solve—get in touch with B. F. Goodrich, leader in rubber research and engineering. *The B. F. Goodrich Company, Aeronautical Division, Akron, Ohio.*

B.F.Goodrich
FIRST IN RUBBER

Beautiful CAMDEN AND ROCKPORT
ON THE COAST OF MAINE



Send for Picture Folder

Here are Your Happy Days

Mail the coupon today for free folders describing villages, accommodations, scenic beauty and varied sports

CAMDEN-ROCKPORT CHAMBER OF COMMERCE
BOX S , CAMDEN, MAINE

Name
Address
City — State

...for a vacation ...for year-round living!

Aroostook County

Aroostook County, largest in the State, forms the northern and most of the eastern boundary of the State of Maine. Covering 6,453 square miles, not more than 20 per cent of the county is under cultivation as farm lands, yet that 20 per cent, or nearly a million acres, each Summer becomes New England's greatest flower garden, with thousands of acres of vari-colored potato blossoms and seas of white, red and crimson clover.

The remaining 80 per cent of this northern wonderland is a wilderness of dense forest, sparkling lakes and rushing rivers and streams, where fish and game in season can be had for the taking.

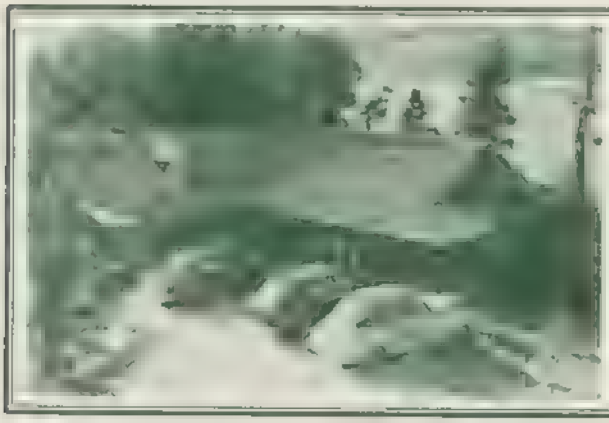
As the Potato Empire of the Nation and one of the richest agricultural counties in the United States, Aroostook each year holds a potato festival during the height of the potato blossom season, attracting visitors from all sections of the Country. During the Spring and Fall it is the goal of thousands of fishermen and hunters. It is a vacation area without peer in the Summer also, and its facilities and the popularity of its winter sports are renowned throughout the Northeast.

Geographically and commercially, Aroostook has four characteristic regions. The southern part of the county centers on Houlton; then there is the Presque Isle-Fort Fairfield-Caribou area; there is the Van Buren-Madawaska-Fort Kent-Eagle Lake area in the extreme northeast; and finally there is the vast expanse of roadless forest and hills, lakes, streams and rivers comprising the western part of the county. This is cut by such famous rivers as the Machias, Fish, Allagash, St. John, Big and Little Black and St. Francis, all flowing into the St. John to make it a broad, mighty river curving around the northern tip of Maine to where it flows down through New Brunswick to the sea.

Main highways enter Aroostook from the south at Macwahoc on Route No. 2 from Bangor and at Weston on Route No. 1 from Calais. From Macwahoc Route No. 2 follows the course of Molunkus Stream, with Molunkus Lake nearby, to Monarda, Silver Ridge and Golden Ridge to Island Falls. Another road (gravel), south of Macwahoc passes the western side of Molunkus Lake to Benedicta, Sherman and Sherman Mills, all of them potato growing, lumbering, and hunting and fishing centers. These usually are reached from Route No. 2.

Island Falls likewise is a commercial center for farming, lumbering and nearby resorts. It is on the falls of the west branch of the Mattawamkeag River and has

(Continued on Page 122)



CAMPS OF ACADIA

NORTHERN MAINE BORDERING CANADA

A Haven for Rest and Relaxation
On Beautiful Eagle Lake, of the Famous Fish River Chain

Unexcelled trout and salmon fishing
Canoeing — Swimming — Hunting
Guides and plane available — accessible by auto
Superb food Courteous service Reasonable rates

MAY 1ST TO NOV. 1ST

Cynthia and Claude L. Martin EAGLE LAKE, ME.

For Your Protection . . .

OFFICIAL INFORMATION

The official designation of MAINE PUBLICITY BUREAU Branch Offices. Our services are free; our only purpose to help you get the most out of a visit to Maine.

RED APPLE CAMPS 32 Miles North of Bangor on Route 2

Surrounded by several of Maine's best lakes and streams. Good hunting. Private cabins for 2 or 4, heated. Good food in central dining room. Guides and boats available. Licenses for sale at camps. Busses daily from Bangor. *Booklet on request.*

F. L. HEWEY MACWAHOC, MAINE

Open May 1 to Dec. 1

CAMP THEODORE ROOSEVELT

ISLAND FALLS Aroostook County MAINE

HOUSEKEEPING CABINS

On beautiful Pleasant Lake and famous Mattawamkeag Lake. Big bass bite good in both lakes. A great vacation for all the family. $25 to $50 a week. Enroute to Gaspe Peninsula.

Write for booklet

Until June 20, F. I. McAuliffe, 3 Fairmount Ave., Wakefield, Mass

CASCADE LODGE and CABINS

Two Miles from Old Orchard Beach — Ten Miles to Portland

Offers a high standard of luxury in overnight cottages to the traveller and vacationist. In the Lodge—sixteen rooms with private bath.

— MAINE'S FAMOUS SHORE DINNERS —

with Lobsters, broiled, baked or boiled—tender Pine Point Clams—Maine vegetables, prepared as only a State of Maine Chef can

SPECIAL DAILY MENUS

Illustrated folder available

CASCADE LODGE CO.
B. H. HAWKES, Mgr.

SACO, MAINE
Phone Scarboro 4416

Besides its world-famous textile plants at Biddeford and Sanford and its unequalled recreational advantages, York County is a highly developed agricultural area, having 140 days annually without killing frosts. It is part of the Atlantic Truck and Vegetable Region, growing crops such as peaches and melons usually grown farther south. Dairying, poultry raising, orcharding and forestry are important components of its rural economy and it contains the largest orchard in Maine of more than 16,000 trees.

Well-kept homes and farms, excellent highways, varied industrial opportunities, every form of recreational advantage close by, from the mountains to the sea, and the keen civic consciousness of its residents justify them in regarding their section of the State as the "show window of Maine."

THE INN BIDDEFORD POOL, ME.

For those few people who want and appreciate the nicer things of life.

A folder and rate schedule are yours for the asking

Write W. GEOFFREY SYMONDS, Mgr.

LOG CABIN VILLAGE

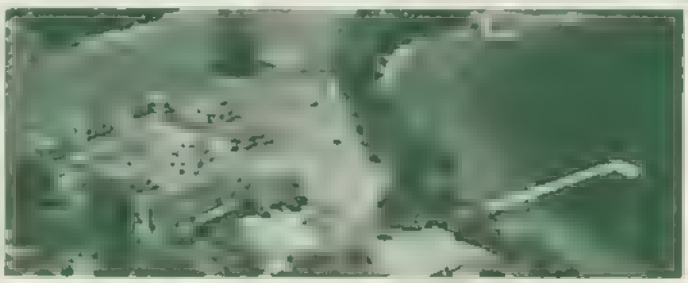
Gateway to Old Orchard Beach

30 — Thirty Cabins — 30

Reasonable weekly rates. With or without housekeeping facilities

Please write for rates and detailed description of our Village

LOG CABIN VILLAGE P. O. Box 296 SACO, MAINE



THE LITTLE HOUSES

SUNSET POINT, FERRY ROAD, SACO, MAINE

FOR A REAL VACATION CHOOSE . . .

Vacation cottages, located on the shores of beautiful Sunset Bay, where the Saco River meets the ocean. Cottages accommodate four or five persons, are attractively furnished in maple. Charming living room with fireplace. Two double bedrooms, twin beds, wool mattresses, box springs. General Electric kitchen—electric stove, refrigerator, hot water unit. Walls of Maine's knotty pine, all windows with Venetian blinds

"The Little Houses" are furnished so completely that all you need bring are your personal belongings. Near all sports, with salt water bathing, boating from private docks

Rates by week, month or season, include electricity, water, fire place wood, bathing, boats, parking and maid service.

Illustrated booklet upon request

MRS. W. LLOYD WALKER, Prop.

Vice-President of Operations

of *Panagra*

PAN AMERICAN GRACE AIRWAYS INC

Champion Spark Plug Company
Toledo 1, Ohio

Gentlemen:

A Panagra DC-6 equipped with Champion Spark Plugs has set the commercial record for spark plug life. Running time was 983 hrs., 48 min. of continuous operation!

This record is proof of the dependability of Champion Spark Plugs. Champion's have been an integral part of Panagra's performance for many years.

Very truly yours,

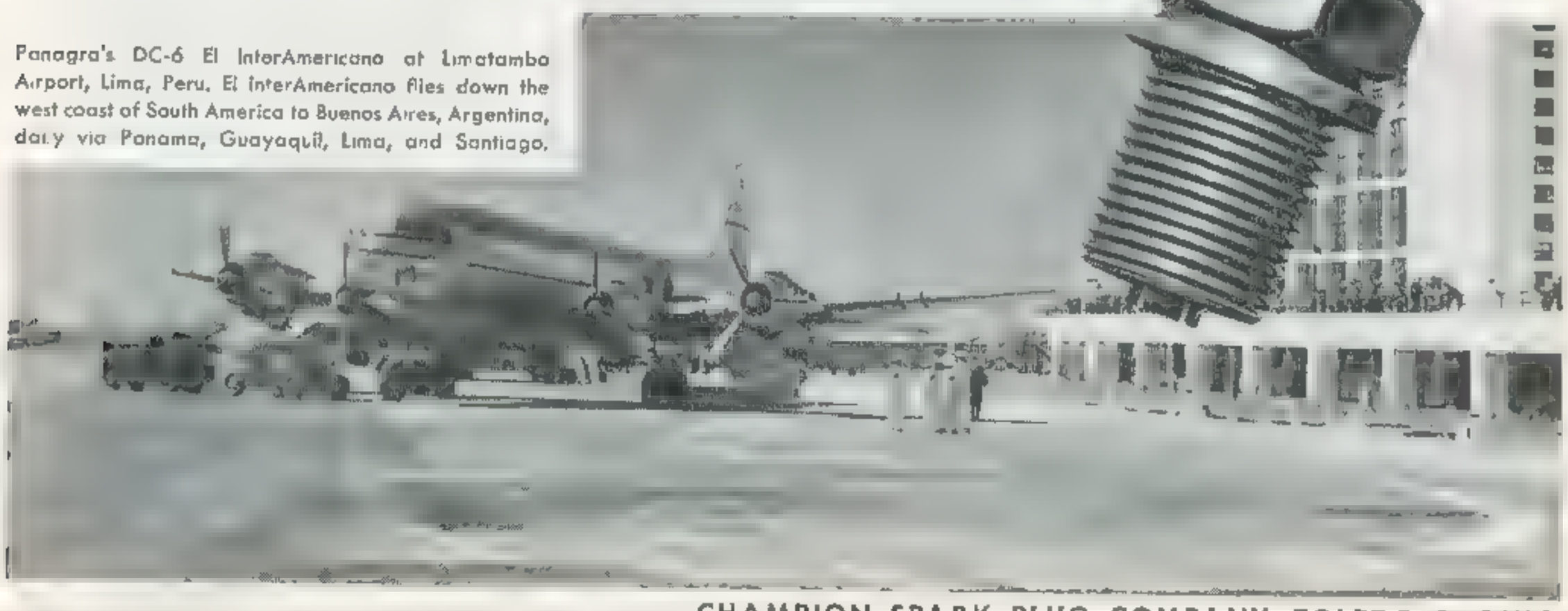
Thomas J. Kirkland
Vice President – Operations

PAYS HIGH TRIBUTE TO DEPENDABLE

CHAMPION *Spark Plugs!*

983 hours 48 minutes—a new commercial record for spark plug life—is the spectacular achievement of Champion R37S-1 Spark Plugs in a Panagra DC-6 equipped with Bendix low tension ignition system.

This record compiled in regular service of Panagra *El InterAmericano* flights from the U. S. down the west coast of South America to Buenos Aires is eloquent testimony to the absolute dependability of Champion Aircraft Spark Plugs, as Mr. Kirkland's letter states. That's why the majority of air lines—the world's most discriminating spark plug buyers—specify Champions.



Panagra's DC-6 *El InterAmericano* at Limatambo Airport, Lima, Peru. *El InterAmericano* flies down the west coast of South America to Buenos Aires, Argentina, daily via Panama, Guayaquil, Lima, and Santiago.

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

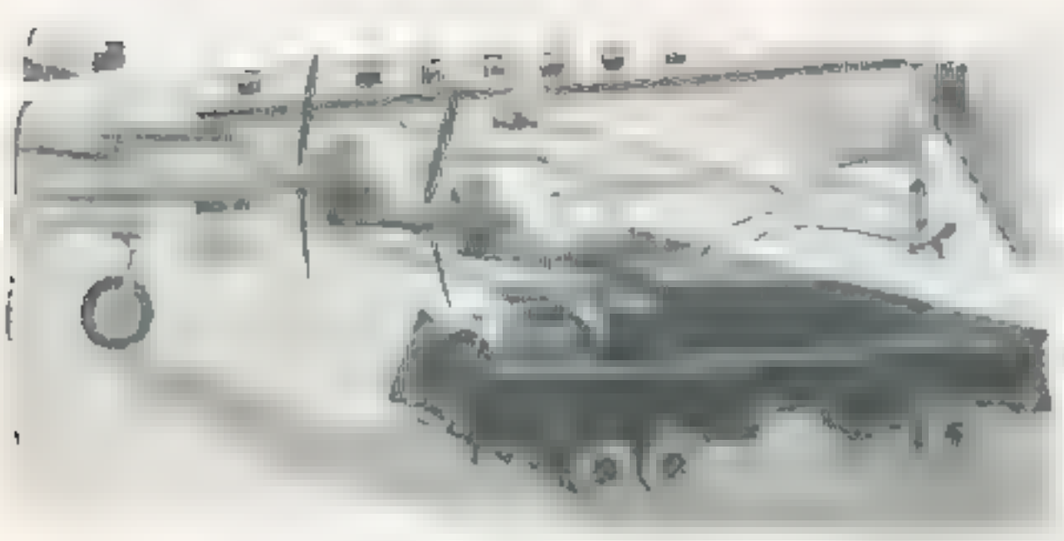
"For Maximum Power, Economy and Dependability"

American Airlines Specifies

DEPENDABLE

CHAMPION

SPARK PLUGS



Airline pilots know that the ability to get maximum engine power at a given moment is the greatest single safety factor they have. That's why 95% of the airlines fly with dependable Champions!

"*AMERICAN AIRLINES* requires spark plugs that give maximum power, economy and dependability. That's why American Airlines uses dependable Champion Spark Plugs for our fleet." (signed) M G BEARD, *Chief Engineer*, American Airlines

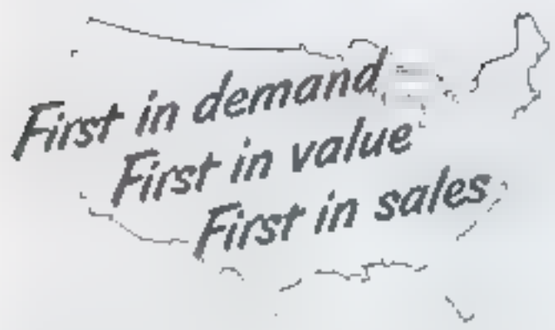
Listen to the CHAMPION ROLL CALL . . . Harry Wismer's fast sportscast every Friday night, over the ABC network . . . CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

You get more . . .
you save more with

CHEVROLET

ADVANCE-DESIGN

TRUCKS



Whatever the job you have for a truck, Chevrolet has the truck that's *right* for your job! It's a new Chevrolet Advance-Design truck, built to cut your trucking costs down to rock bottom. Saves you money when you buy, because the purchase price is low. Saves money right along, because no other truck in its price class offers the great combination of *ruggedness, durability and economy* you get in Chevrolet. Just look at the extra value features that make Chevrolet trucks *stand up better, handle easier, cost little to run and maintain.* Your best truck deal is the deal you get on a Chevrolet Advance-Design truck at your Chevrolet dealer's.

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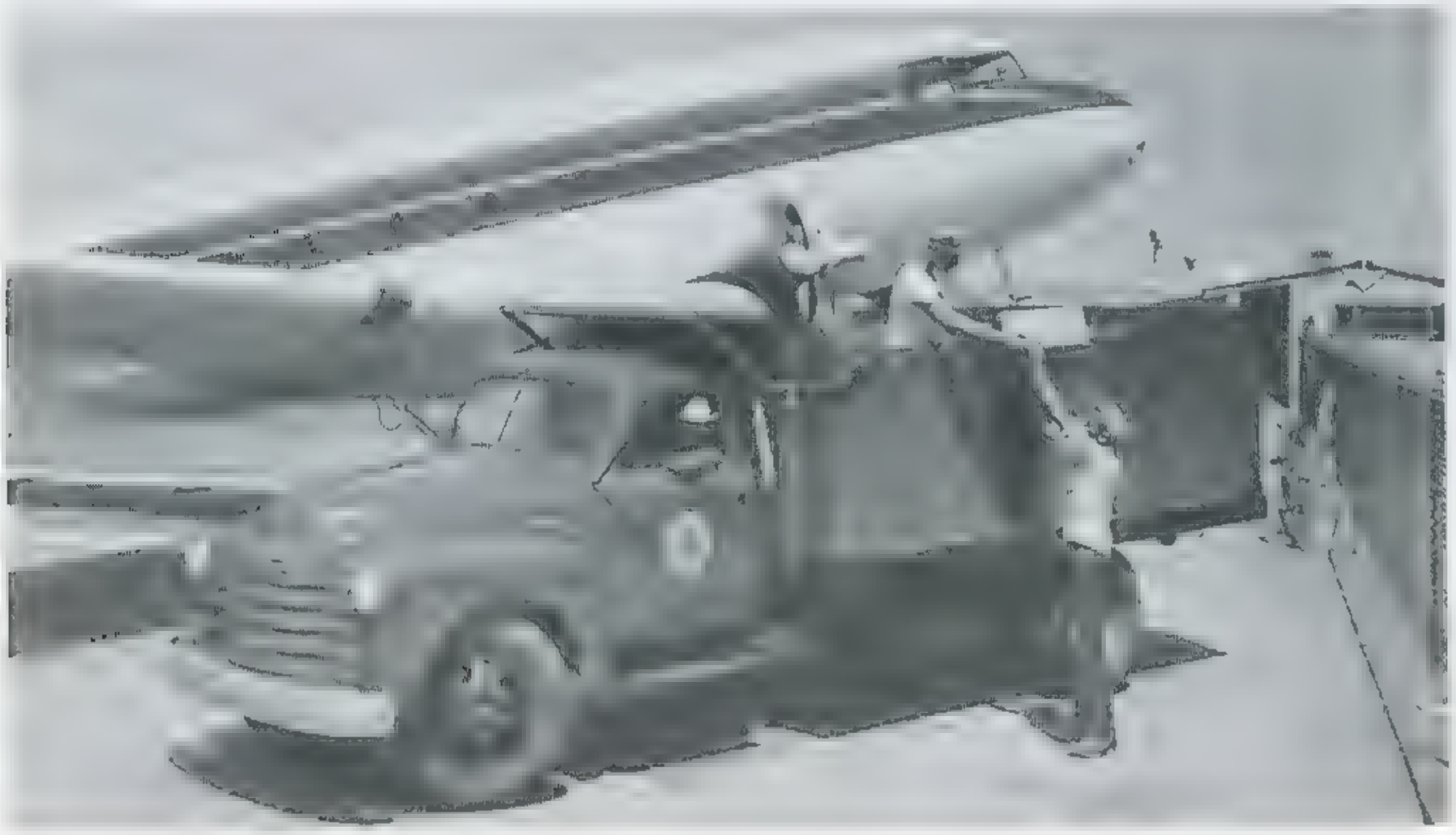


Clifford Feather Weights Cool the Oil in

WORLD'S LARGEST BOMBER, the Convair B-36D, has a 10,000 mile range and a ceiling of over 45,000 feet.

It uses a Clifford oil cooler to get rid of the heat generated in the constant speed drive which links the engine to the 400 cycle alternator. The oil cooler is essential to the proper operation of the unit under the varying conditions of takeoff and flight, and permits the use of a smaller size and lower weight drive.

CONVAIR B-36D BOMBERS

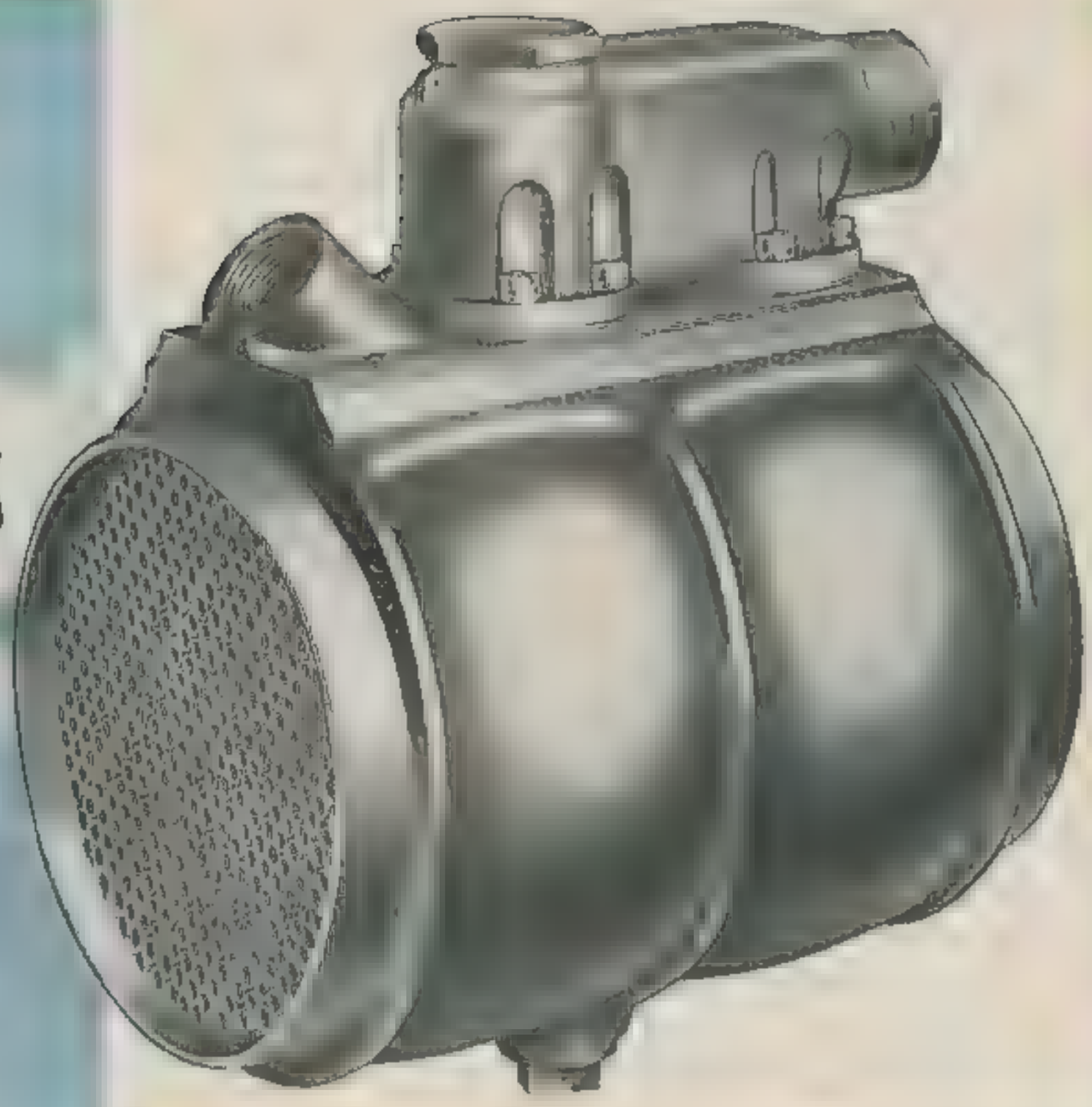
Conventional or jet powered, civilian airliner or world's largest bomber . . . all types of modern aircraft depend on Clifford Feather Weight All-Aluminum Oil Coolers . . . *the only all-brazed type* of oil coolers. Their superior weight-strength ratio is achieved through Clifford's patented brazing method and pre-testing in Clifford's wind tunnel laboratory . . . the largest and most modern in the aeronautical heat exchanger industry. For further details, write Clifford Manufacturing Company, 136 Grove Street, Waltham 54, Mass. *Division of Standard-Thomson Corporation.* Sales offices in New York 17, Detroit, Chicago 1, Los Angeles.

Feather Weight **CLIFFORD**

ALL-ALUMINUM OIL COOLERS
FOR AIRCRAFT ENGINES

HYDRAULICALLY-FORMED BELLOWS
AND BELLOWS ASSEMBLIES

Clifford Feather Weights Cool the Oil in



Chance Vought's Cutlass Fighters

POWERFUL TWIN JETS. Vought's Cutlass Fighters represent the latest advances in high speed aircraft design. Stubby, sweptback wings permit tremendous speeds, twin afterburners help develop additional thrust. This great addition to Uncle Sam's air fighting forces carries Clifford Feather Weight All-Aluminum Oil Coolers.

All types of modern aircraft rely on Clifford Feather Weights for oil cooling. They are *the only all-brazed type of oil cooler*. Their superior weight-strength ratio is a result of Clifford's patented brazing method and accurate pre-testing in Clifford's wind tunnel laboratory . . . largest and most modern in the aeronautical heat exchanger industry. For full details on Clifford Feather Weight All-Aluminum Oil Coolers, write CLIFFORD MANUFACTURING COMPANY, 136 Grove St., Waltham 54, Massachusetts. *Division of Standard-Thomson Corporation.* Sales offices in New York, Detroit, Chicago, Los Angeles.

Feather Weight **CLIFFORD**

ALL-ALUMINUM OIL COOLERS
FOR AIRCRAFT ENGINES

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LONGEST RANGE 2-ENGINE BOMBERS, the mighty P2V's are packed with power. Radar "eyes" enable them to hunt subs through clouds and darkness . . . and to complete their mission with a salvo of rockets. Their specifications call for Clifford Feather-Weight All-Aluminum Oil Coolers.

LOCKHEED'S P2V NAVY PATROL BOMBERS

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Modern aircraft of all types — conventional or jet powered — rely on Clifford Feather-Weight All-Aluminum Oil Coolers . . . *the only all-brazed type of oil cooler*. Famous Feather-Weights achieve a remarkable weight strength ratio thanks to Clifford's patented brazing method and accurate pre-testing in Clifford's wind tunnel laboratory . . . the largest and most modern in the aeronautical heat exchanger industry. Your inquiry is invited. CLIFFORD MANUFACTURING COMPANY, 136 Grove Street, Waltham 54, Massachusetts. *Division of Standard-Thomson Corporation*. Sales offices in New York, Detroit, Chicago, Los Angeles.

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this eastern section of the county are the agricultural and lumbering communities of Prentiss, Drew, Kingman and Webster Plantation.

Northwest of Old Town, on the west side of the big river, are the farming and lumbering communities of Alton, Argyle, LaGrange, Edinburg, Maxfield and Howland, the latter at the confluence of the Piscataquis and the Penobscot and an industrial and agricultural village, with pulp and paper mills, where spring river drives are a spectacular sight. North of Howland is Seboeis on South Branch Lake and a lake, stream and mountain country extending to Seboeis Lake in Piscataquis County, an area containing some of the largest small-mouth black bass in the State, as well as other fighting fish in the streams and lakes. Here also are Woodville and Chester, farming, lumbering and summer camp communities on the west bank of the Penobscot.

From Mattawamkeag Route 157 leads northwest to the lumber, pulp and manufacturing towns of Medway, East Millinocket and Millinocket, where are located the big mills of the Great Northern Paper Company. These towns are also the gateways to Norcross, departure point for the Twin, Pemadumcook, Nahmakanta, Jo-Mary and Millinocket Lakes of the West Branch Chain and the Katahdin area, while the East Branch region of the Penobscot is reached through Medway to Grindstone, Staceyville, Sherman Station, Mt. Chase and Patten to Shin Pond. From Shin Pond northward is the large lake-studded area of Penobscot County which includes Mattagamon (Grand), Scraggly, Snowshoe, Grand and Seboeis Lakes and several mountains.

This is a region long famous with hunters, fishermen and campers, full of fighting fish and big game and spectacular in its wilderness distances. From here the wilderness extends into vast reaches of northern Aroostook County.

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Modern cabins, several outlying camps at trout ponds, one on Appalachian Trail. Swimming and Fishing
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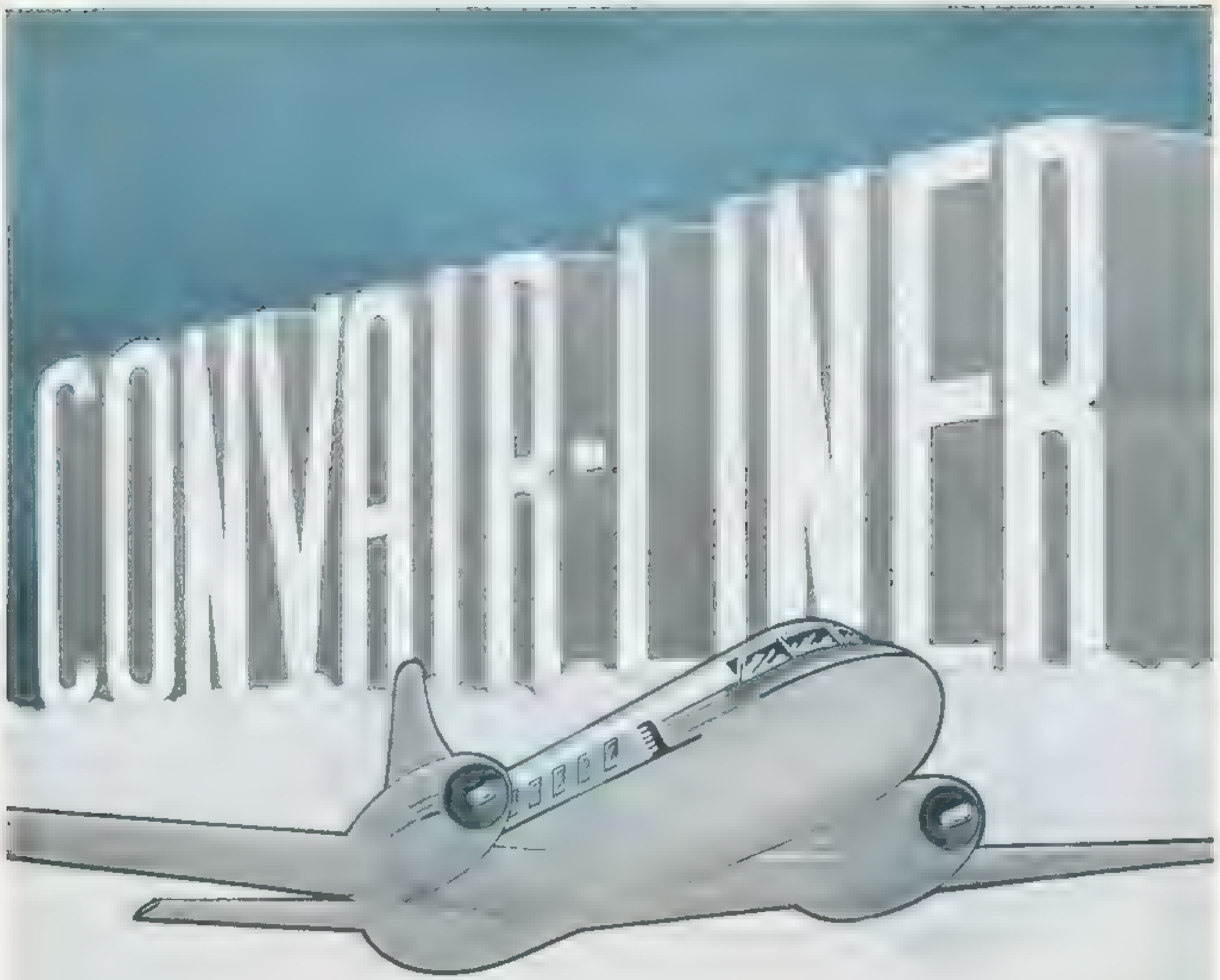

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L-M AIRPORT LIGHTING ENGINEERING SERVICE

L-M offers a complete engineering service for airports on runway lighting. L-M airport engineers know the lighting problems. What's more, they know the problems of the pilot as he comes in for a landing. They know what happens to runway lights under minimum and emergency conditions—the effect of fog, daylight snow, rain, and dust —and how far light can penetrate these conditions. That experience is valuable—it's available to you!

L-M Field Engineers throughout the country are backed by experienced district lighting engineers and a complete engineering staff at airport lighting headquarters.

To get this service, fill out a copy of the Engineering Data Check sheet shown below. You can get this sheet by asking the L-M Field Engineer who calls on you, or by writing Line Material Company, Airport Lighting Division, Milwaukee 1, Wisconsin (a McGraw Electric Company Division).

SOME L-M-LIGHTED AIRPORTS

L-M runway lighting is in operation at small, medium, and large airports all over the world. With its various types of units L-M can serve practically any airport. Below are listed some of the principal airports with L-M High Intensity Runway Lighting. Most of these have the latest-type 180,000 candlepower unit with the famous L-M controllable beam, some have the fixed focus type. In addition there are many, many airports with L-M medium-intensity units. If you are interested, ask for a list of L-M-equipped airports in your area.

Worcester, Mass.
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Windsor Locks (Hartford), Conn.
New York (La Guardia)
New York International
Newark
Philadelphia International
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Winston-Salem, N. C.
Columbus, O.
South Bend
Indianapolis
Lansing
Battle Creek
Chicago
Milwaukee
Madison
Minneapolis St. Paul
Sioux City, Ia.
St. Joseph, Mo.
St. Louis
Tri-Cities Airport, Tenn.
Chattanooga
Knoxville
Nashville
Jackson, Miss.
Birmingham, Ala.
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Here is some of the complete L-M Equipment for Small and Large Airports

L-M's famous 180,000 cp controllable-beam high intensity runway light, type L 818.

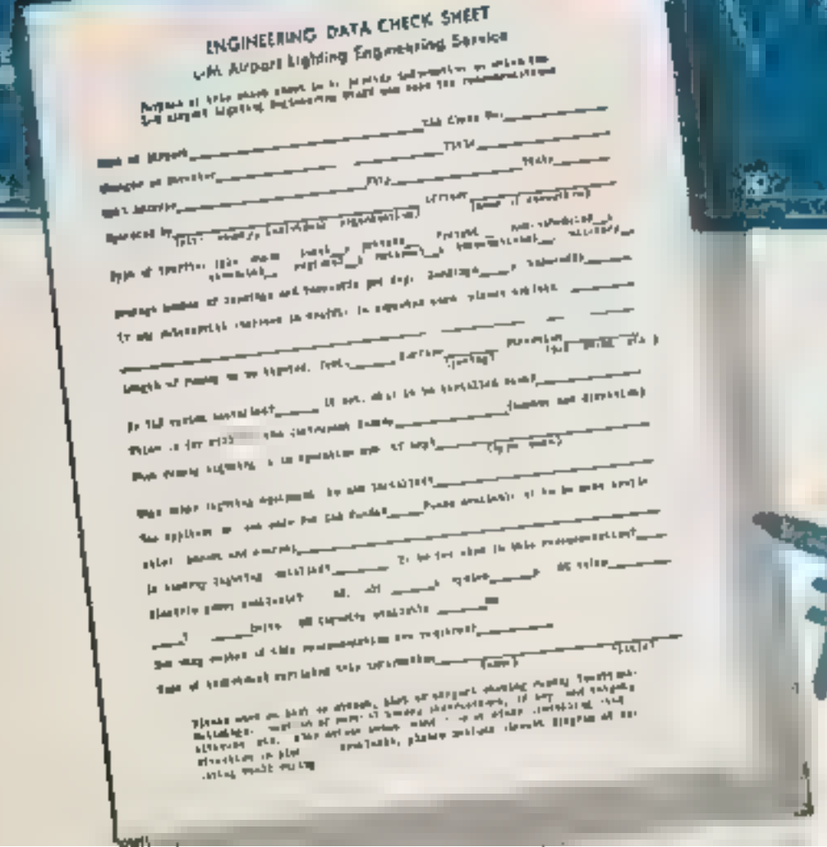
L-M high intensity unit with fixed focus, type L 819.

L-M medium intensity runway light for smaller airports, and for taxiways at larger airports.

L-M revolving beacon for Class I, II, and III airports.

L-M marker and obstruction lights, single or double.

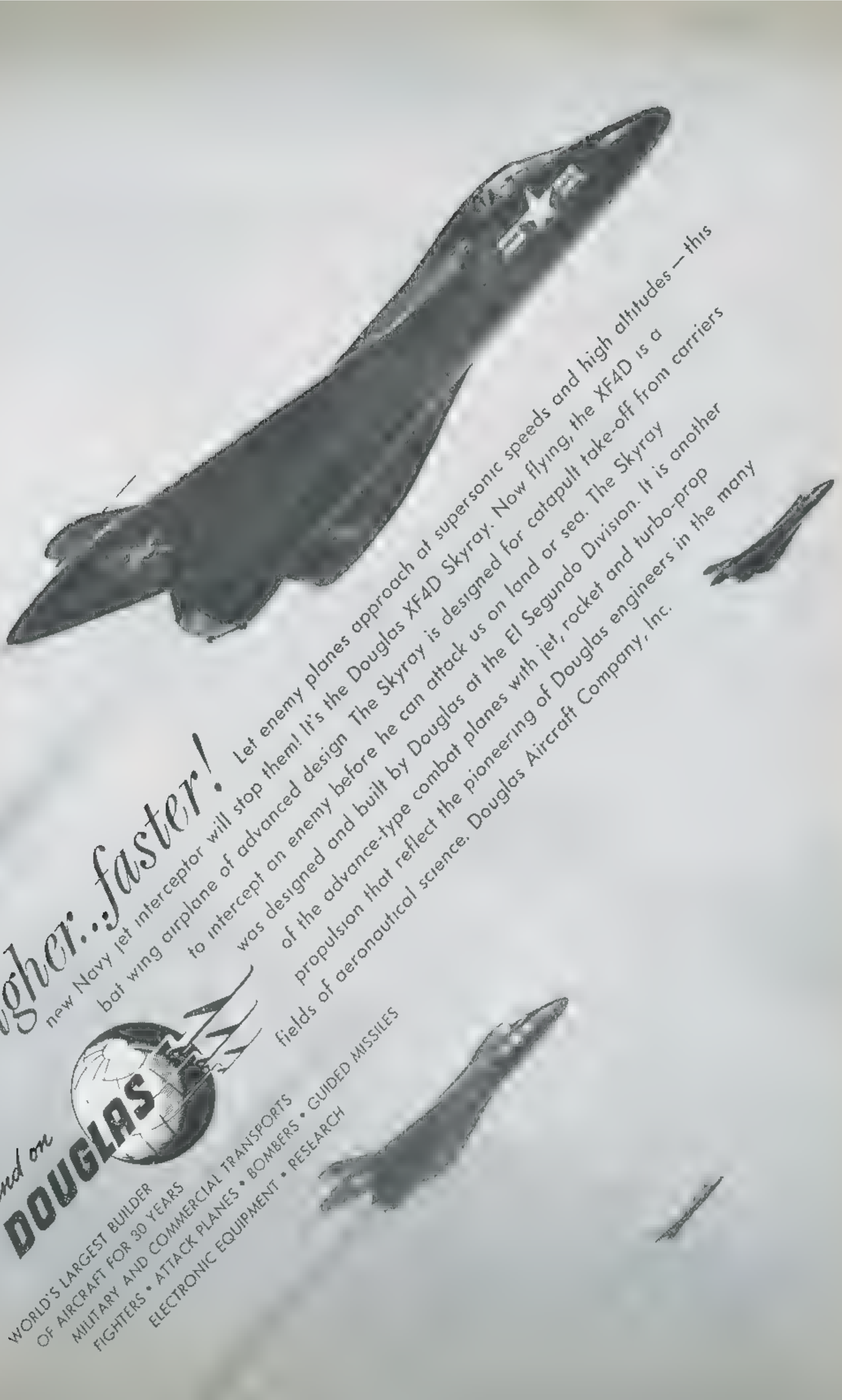
L-M control panels for large and small airports.



Get this Engineering Data Check Sheet Free

A simple way to check the information and data on which to determine the runway lighting requirements for your airport. Sent free on request to airport managers and others concerned with runway lighting installations.

42-R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new Navy jet interceptor will stop them! It's the
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ELECTRONIC EQUIPMENT • RESEARCH

Other work, such as modification and overhaul, extends the work-load to the end of the year at least. This is not saturation; schedules can be readily adjusted to handle a greater volume.

▶ **Genesis**—The reason for Mallard Industries is to be found in a long time desire of Hewitt's to relinquish merchandising as his main activity and gradually to phase into becoming an industrialist.

The earliest indication of Hewitt's thinking, and probably the key factor leading up to his new activity, was when he leased a $1 million hangar from Port of New York Authority at Teterboro late in 1949 and opened a round-the-clock, all-week executive plane center catering to corporation aircraft and their users (AVIATION WEEK Dec. 5, 1949).

Here at Teterboro, where ". . . . more executive planes pass through than any other place in the country," Hewitt accumulated his corporation aircraft know-how. He had a photographic record made of the cabin of every plush transient plane and built up an extensive file of these interiors, which showed tastes in furnishings and the techniques in making them up. And in the course of building up this library, he also made numerous contacts with future clients

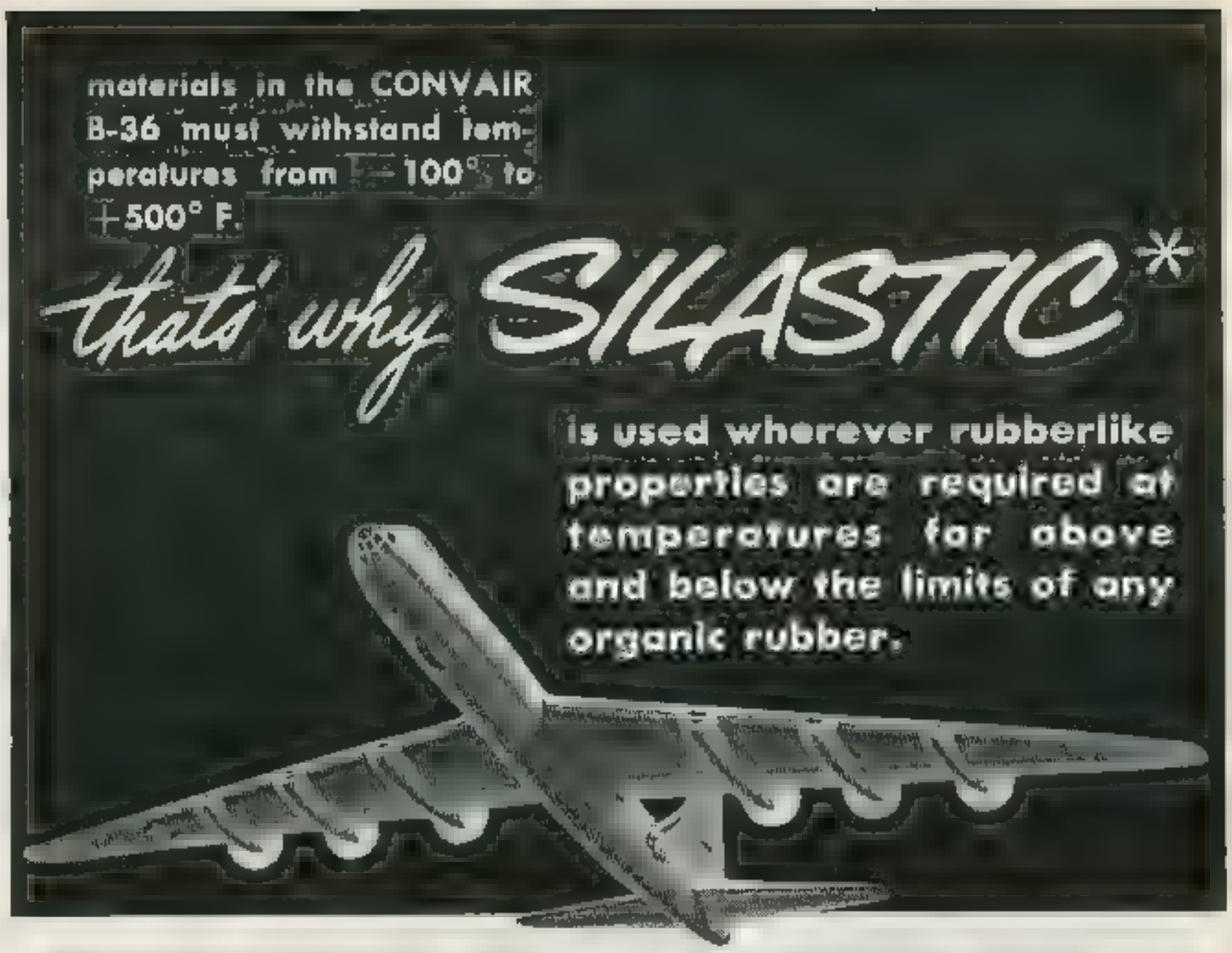
▶ **Market Studied**—When Hewitt probed the market potential for an East Coast conversion base, the figures looked bracing. He found that about 70 percent of the U.S. industrial complex was located between Chicago and Boston, with one-third of the 1,000 major businesses having New York offices. Of the other two-thirds, 40-50 percent had offices between New York and Chicago.

The outbreak of hostilities in Korea and soaring airline business increased corporation apprehensions about a shortage of transportation between defense plants and Washington. This boomed the executive plane field. The U.S. business fleet of about 3,000 twin-engine craft has been growing at the rate of about 20 planes monthly—pouring approximately $1.5 million of business monthly into conversion centers.

Other factors made the field seem very lucrative:

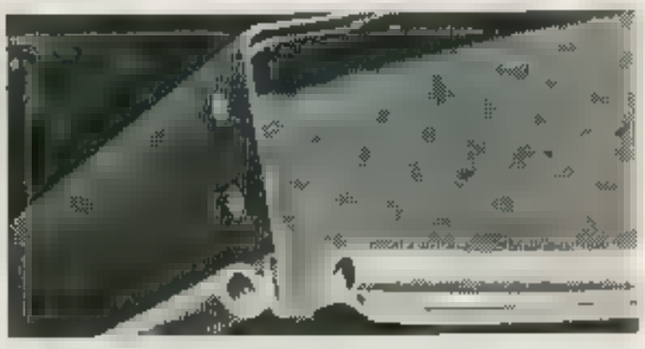
• **Military airframe** subcontracting could be obtained that would fit well in with the necessary space and fabrication skills needed to rework large transports Hewitt now is finalizing the necessary lists of production tooling needed and expects to have the equipment on hand in 90-120 days. His men are now lining up subcontracts

The labor supply at Stratford is excellent, many former Chance Vought Aircraft employes having remained behind when the planemaker moved to Texas. The neighborhood has numerous fine shops for farming work out such as


materials in the CONVAIR B-36 must withstand temperatures from −100° to +500° F.
that's why SILASTIC*
is used wherever rubberlike properties are required at temperatures far above and below the limits of any organic rubber.

Silastic boots are used to increase the reliability and to prevent corrosion and untimely shorting of the limit control switches made by Exhibit Supply Company. They retain their strength and flexibility at temperatures of −100° F.

Silastic gaskets reinforced with glass cloth are used to seal the rocker arm housings in Pratt and Whitney "Wasp Major" engines. They withstand hot oil at operating temperatures in the range of 450° F.



Silastic is used to seal bomb bay doors and the cover plates, doors and windows in camera bays, where flexibility and resilience are required at temperatures ranging from -100° to +160° F.

Silastic gaskets reinforced with glass cloth are used to seal the cabin heating and pressurizing systems at operating temperatures in the range of −70° to 400° F.

For more data on Silastic phone our nearest branch office or write for New Silastic Facts data sheet D 5.

*T. M REG U S PAT PAT OFF.

DOW CORNING CORPORATION
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Hancock County

It was inevitable in the scheme of things that when the scenic wonderland that is the State of Maine was fashioned, there would be one region that would stand out above all others in majesty and beauty. Such has been the tribute accorded to Hancock County

Capped by the wild grandeur of Mount Desert Island, termed by Henry Van Dyke "the most beautiful island in the world," this far-flung coastal area of islands, bays, beaches and bold headlands reaching from Castine on Penobscot Bay to Schoodic Point on the East for nearly a century has drawn thousands of summer visitors from all parts of the world.

This archipelago of islands, island-sheltered waterways and lake-like bays presents a panorama of majestic beauty and infinite scenic variety that defies description. On Mount Desert Island alone eighteen beautiful mountains literally rise out of the sea, with twenty-six lakes and ponds in the valleys between. On all sides evergreen forests stretch to the sea, or to the sheer cliffs where the sometimes wild surf flings ocean spray high into the air. In its center deep Somes Sound forms the only natural fjord on the whole Atlantic Coast.

Twenty-two square miles of Mount Desert and Schoodic Point, across the entrance to Frenchman's Bay, form famous Acadia National Park, the first National Park east of the Mississippi and the only one on the coast north of Florida. Land and sea, woodland, lake and mountain—all are represented here in remarkable concentration. It has become the home of land and water birds of many species and deer and beaver have become numerous and are often in evidence.

Motor roads of great beauty traverse the park and surrounding areas and connect with Bar Harbor on the North and Seal Harbor and Northeast Harbor, resorts on the southern shore. Rising from the Bar Harbor road, a marvel of highway engineering winds a hard-surfaced road to the summit of Cadillac Mountain (1,528), the highest point on the eastern coast, where a parking overlook commands a breath-taking view of the surrounding ocean, islands and countryside.

Free camping grounds, a nature guide service with varied daily programs, museums such as at Sieur de Monts Spring and at Islesford on Little Cranberry Is-

(Continued on Page 108)

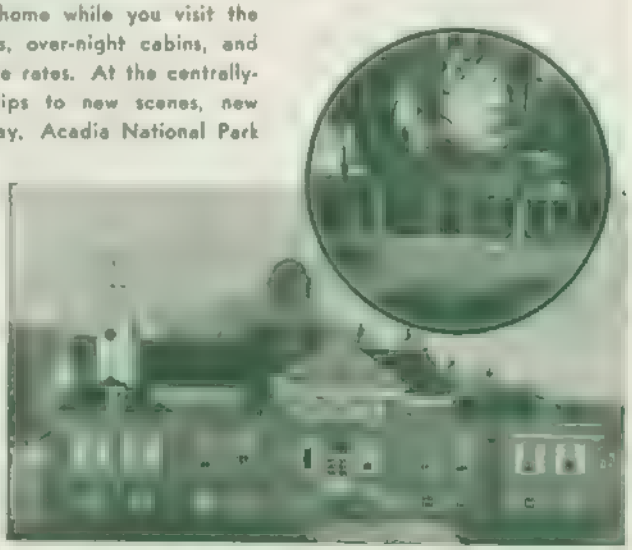
ELLSWORTH
At the Crossroads Down East

Entering Hancock County by either the Bucksport Bridge or by way of Bangor, the roads cross here for the shore route Down East (Route 1) or Bar Harbor (Route 3)

Ellsworth invites you to make this your home while you visit the most beautiful country in Maine. Hotels, over-night cabins, and many delightful tourist homes, at moderate rates. At the centrally-located information bureau, day-time trips to new scenes, new beauties, will be planned for you each day. Acadia National Park and Bar Harbor are less than an hour away. Many lakes provide good fishing

Ellsworth is the home of the Black House—150-year old mansion with original furnishings, now open as a public museum.

For detailed information, write Ellsworth Jr. Chamber of Commerce, Ellsworth, Maine.



The accompanying photos are of the Ellsworth City Hall and Black House

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The largest city in Canada—and still rapidly growing—is Montreal. For centuries the St. Lawrence River has been its main highway. But today the fully equipped airfield at nearby Dorval is Montreal's most modern gateway to all the rest of the world.

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The Esso winged oval symbolizes petroleum products of uniform, controlled quality backed by more than 42 years of aviation experience.

*At Montreal Airport and throughout Canada the marketer of Esso Aviation Products is Imperial Oil Ltd.

(PHOTOGRAPH COURTESY OF TRANS-CANADA AIR LINES)

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**At Orly Airport and throughout France the marketer of Esso Aviation Products is Standard Francaise des Petroles.*

(PHOTOGRAPH COURTESY OF A R FRANCE

ESSO EXPORT CORPORATION, AVIATION DEPARTMENT
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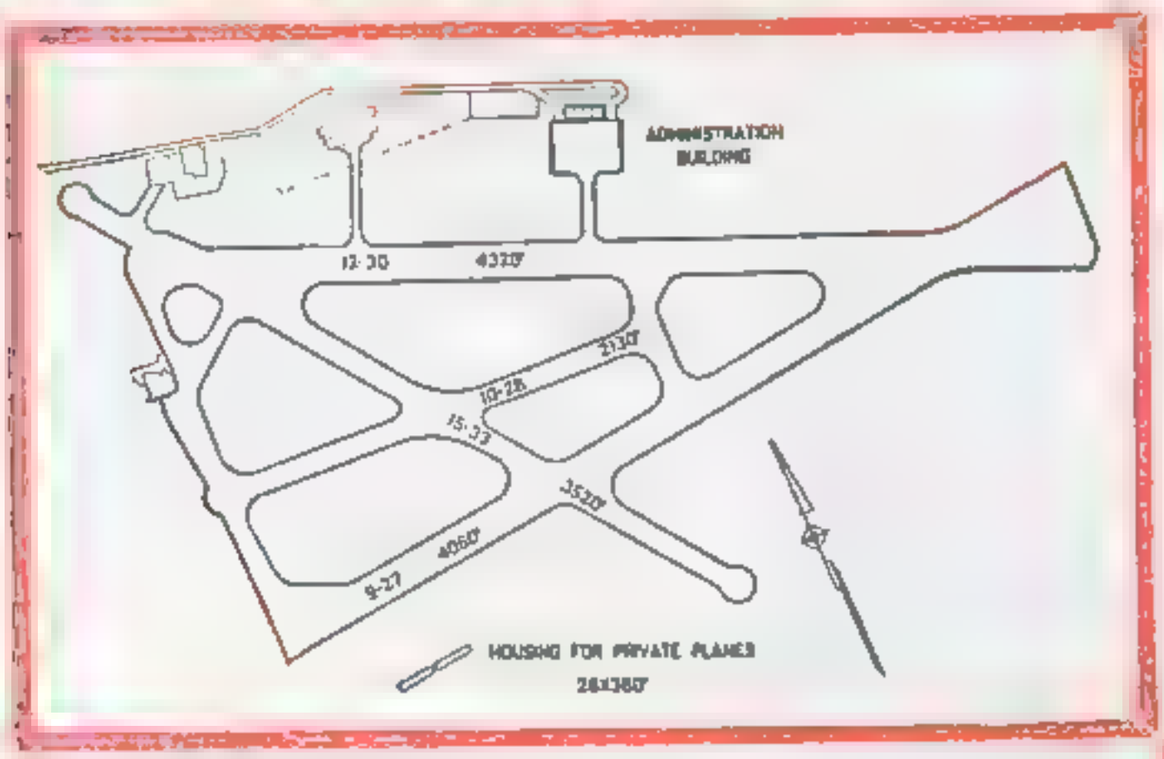
Williamsport's modern municipal airport provides prompt, dependable service...

Mr. J. Robert Bazley, veteran private flyer, talks with Fred Kennie, airport manager, while his plane is serviced through Esso hydrant system.

with Esso Aviation Products...



Mr. Bazley, pictured above at the new Williamsport Administration Building, has been an Esso user for nearly 20 years. In addition to having his plane serviced with Esso Aviation Products, Mr. Bazley, as one of the country's largest anthracite stripping and highway contractors, uses Esso Products exclusively for his trucks and other machinery. In the skyway or on the highway, Mr. Bazley knows he can depend on the products that carry the Esso trade-mark.

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Covering 227 acres this airport has an elevation of 529 feet above sea level. There are two lighted, concrete runways 4320 and 4060 feet in length with two additional black-top runways of 3520 and 2130 feet. The field is lighted.

The new Administration Building has 15000 feet of floor space and houses airline passenger, airmail, freight and express facilities, and a complete restaurant. The Interstate Airway Communications (call letters IPT) and the United States Weather Bureau also maintain stations in this building.

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Already flight-proved in Fairchild-built test missiles this guidance system is being refined and developed further to meet the requirements of our Armed Services. One of the most advanced guidance systems yet devised, it is another example of Fairchild's engineering ability, combining the practical and theoretical to meet the stringent technical demands of modern military science.

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for RF INTERFERENCE SUPPRESSION FILTERS

CONSOLIDATED VULTEE B 36 BOMBER

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FILTRON'S engineers have more than 700 standard filters available, or will design a unit to meet your size, weight, mounting, voltage and current requirements

FILTRON'S capacitor manufacturing and coil winding divisions, metal fabrication shop and metal stamping departments are exclusively producing the highest quality components for **FILTRON'S** RF Interference filters.

RF INTERFERENCE SUPPRESSION FILTERS FOR:

Motors, Generators, Inverters, Electronic Controls, Dynamotors, Power Plants, Actuators, Gasoline Engines

And other RF interference producing equipment

Send for our LATEST CATALOG on your company letterhead

THE FILTRON CO., INC.
FLUSHING, LONG ISLAND, N. Y.

LARGEST EXCLUSIVE MANUFACTURERS OF RF INTERFERENCE FILTERS

AVIATION CALENDAR

Nov. 15-16—Seventh annual meeting of The Magnesium Assn., Biltmore Hotel, New York.

Nov. 16—Annual business meeting of the American Rocket Society, 29 W. 39 St., N. Y. 18, N. Y.

Nov. 22-24—Snowbird Soaring Meet, sponsored by the Elmira Area Soaring Corporation, Elmira, N. Y.

Nov. 27-30—Aviation Distributors and Manufacturers Assn. meeting, Waldorf-Astoria Hotel, New York.

Nov. 28-30—National convention of the American Rocket Society, Atlantic City, N. J.

Nov. 30-Dec. 5—Meeting of the American Society of Mechanical Engineers, Chalfonte Haddon Hall, Atlantic City, N. J. For information write: Ernest Hartfort, 49 W. 39 St., N. Y. 18, N. Y.

Dec. 4-5—Transport aircraft hydraulic accessory and system conference, sponsored by Vickers Incorporated, Hotel Sheraton, Detroit.

Dec. 6-7—Feedback Controls System, Chalfonte Haddon Hall, Atlantic City, N. J.

Dec. 17—Wright Brothers Lecture, sponsored by the Institute of Aeronautical Science, U. S. Chamber of Commerce Auditorium, Washington, D. C.

Jan. 5-6, 1952—Annual Miami Air Show, sponsored by the Florida Air Pilots Assn., Opa Locha Airport, Florida.

Jan. 28-Feb. 1—20th Annual Meeting, Institute of Aeronautical Sciences, Astor Hotel, New York.

Jan. 29-31—114th National Meeting of the American Meteorological Society, Roosevelt Hotel, New York.

March 3-6—Institute of Radio Engineers, Waldorf-Astoria Hotel & Grand Central Palace, New York.

March 17-19—Second Midwestern Conference on Fluid Mechanics, to be held at Ohio State University.

March 17-22—American Society of Tool Engineers, International Amphitheater, Chicago, Ill.

PICTURE CREDITS

9—(Sabre Duo) Keystone; (Princess) INP; (Exterior) PAA; 13—Acme; 14—(middle) Hughes Aircraft, 20-21—NACA; 33—McGraw-Hill World News; 50, 52—Janke & Co.; 59—McGraw Hill World News.

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Years of experience in fabricating aluminum and steel *plus* modern production techniques make Lavelle truly a unique sub-contractor.

Savings and product improvement can often be made by Lavelle's Special Engineering Staff in their continuing search for better ways to do a better job.

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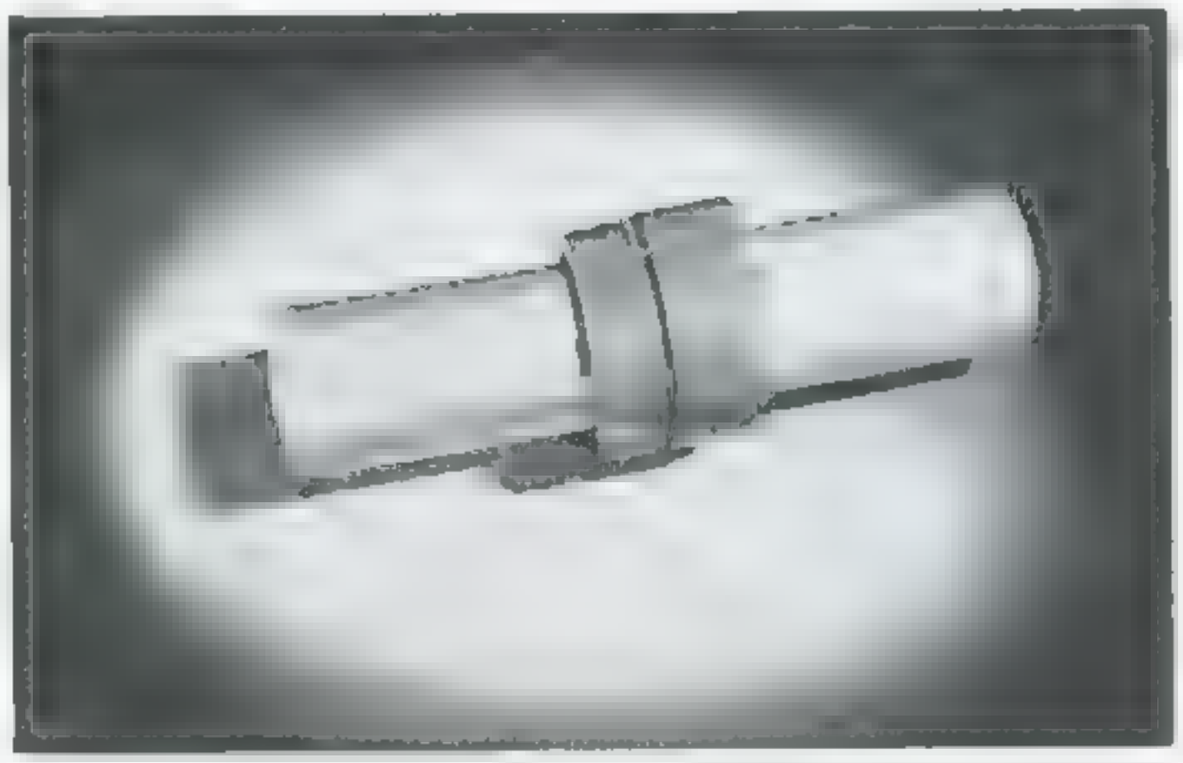
AIRCRAFT CORPORATION

NEWTOWN, BUCKS COUNTY, PA.

IN THE AIR-IT'S *Convair*

ON THE *Convair* - BUILT
U. S. NAVY XP5Y-1
IT'S THE FR
PIPE CONNECTOR*



One of the latest additions to the proud CONVAIR family, the XP5Y-1, will help maintain the U. S. Navy's command over the seas.

It is natural that the builders of the CONVAIR XP5Y-1 have sought to incorporate the best equipment available. We are proud that CONVAIR has decided to use FR Pipe Connectors throughout the aircraft.

The FR Pipe Connector is the product of over fifteen years' research and development in the pressure fueling field. Light in weight, yet rugged, the FR Pipe Connector has advantages not shared by any other pipe coupling method.

*REG. U.S. PAT. OFF.

For further details, write to:

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Specialists in Aircraft Fueling Systems and Equipment

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PRESSURE REFUELING - NOZZLES, ADAPTERS, TANK FILLING VALVES, PIPE CONNECTORS

First to harness dynamic turboprop power!

Aeroprop

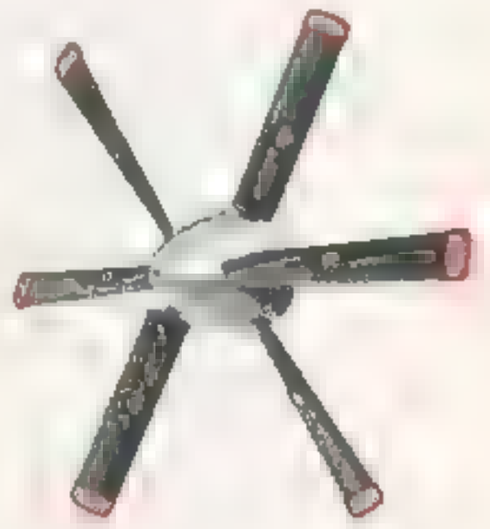
A new day has dawned
in the history of flight—
the day of turboprop power!

For the dynamic combination
of turboprop engines and Aeroprops
opens up a great and new era
when cargo ships, bombers and fighters
will fly at near- or super-sonic speeds.

And they'll fly with range and performance that until now have been only a dream—
a dream brought to life
on the drawing boards
of the men at Aeroproducts.

Aeroproducts Propeller installed on Allison T-40 Turboprop

Aeroproducts, working in close contact with the Navy and Air Force, has pioneered propeller design for turboprop power . . . has, by its research and never-ending experimental work, blazed the trail of propeller driven supersonic speed for all others to follow.



December, 1945—a dramatic milestone in the development of turboprop power! For it was then that the Convair F-81 was flown, first Air Force fighter using turboprop power. And from these tests came knowledge for the development of Aeroprops for new planes that utilize the full power, the enormous thrust of the turboprop engine and Aeroprop combination —and set wonderful new standards of aircraft performance.

AEROPRODUCTS DIVISION
GENERAL MOTORS CORPORATION
DAYTON, OHIO

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Building for today
Designing for tomorrow

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Aeroproducts

The world's first Supersonic Spin Pit!

another "first" for the makers of Aeroprops!

Now, for the first time, propellers can be studied while spinning at supersonic speeds. Every action and reaction of new propeller designs can be watched under conditions that reproduce exactly every detail of flight.

This supersonic spin pit, developed under Navy and Air Force contracts, is in itself a radical advance in research and testing technique. And, coupled with the full facilities of General Motors, it will help increase the leadership Aeroproducts now enjoys in the field of turboprop power—the field of supersonic speed.

The Douglas XA2D with dual rotation Aeroprops is one of several Navy and Air Force planes of near-sonic speed which prove in flight the efficiency of Aeroprop design.

GM GENERAL MOTORS

AEROPRODUCTS DIVISION
GENERAL MOTORS CORPORATION
DAYTON, OHIO

Building for today
Designing for tomorrow

AEROPRODUCTS GM

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Here's why

THE NEWEST AND BIGGEST AIRLINERS ARE BEING EQUIPPED WITH G-E ELECTRICAL SYSTEMS

Lockheed's new model Constellations, and all Super-Connies use General Electric protective systems. G-E provides the fastest possible tripping of overvoltage faults—and freedom from nuisance tripping.

G-E provides the only positive method of isolating a faulty generator without affecting service. That's one reason why all of Pan American's Boeing "Strato" Clippers use G-E systems.

New Douglas DC-6B's being built for Pan American World Airways will be equipped with G-E electrical systems. G-E provides the most complete electrical protective systems ever placed in production for commercial transport-type aircraft.

The country's first turboprop transport—the Convair-Allison Turboliner—is equipped with a G-E electrical system. G-E systems are tailor-engineered to give the protection you need for ordinary or special applications.

The list of planes using G-E protective systems is a roll call of today's most popular aircraft. Are your planes listed among them?

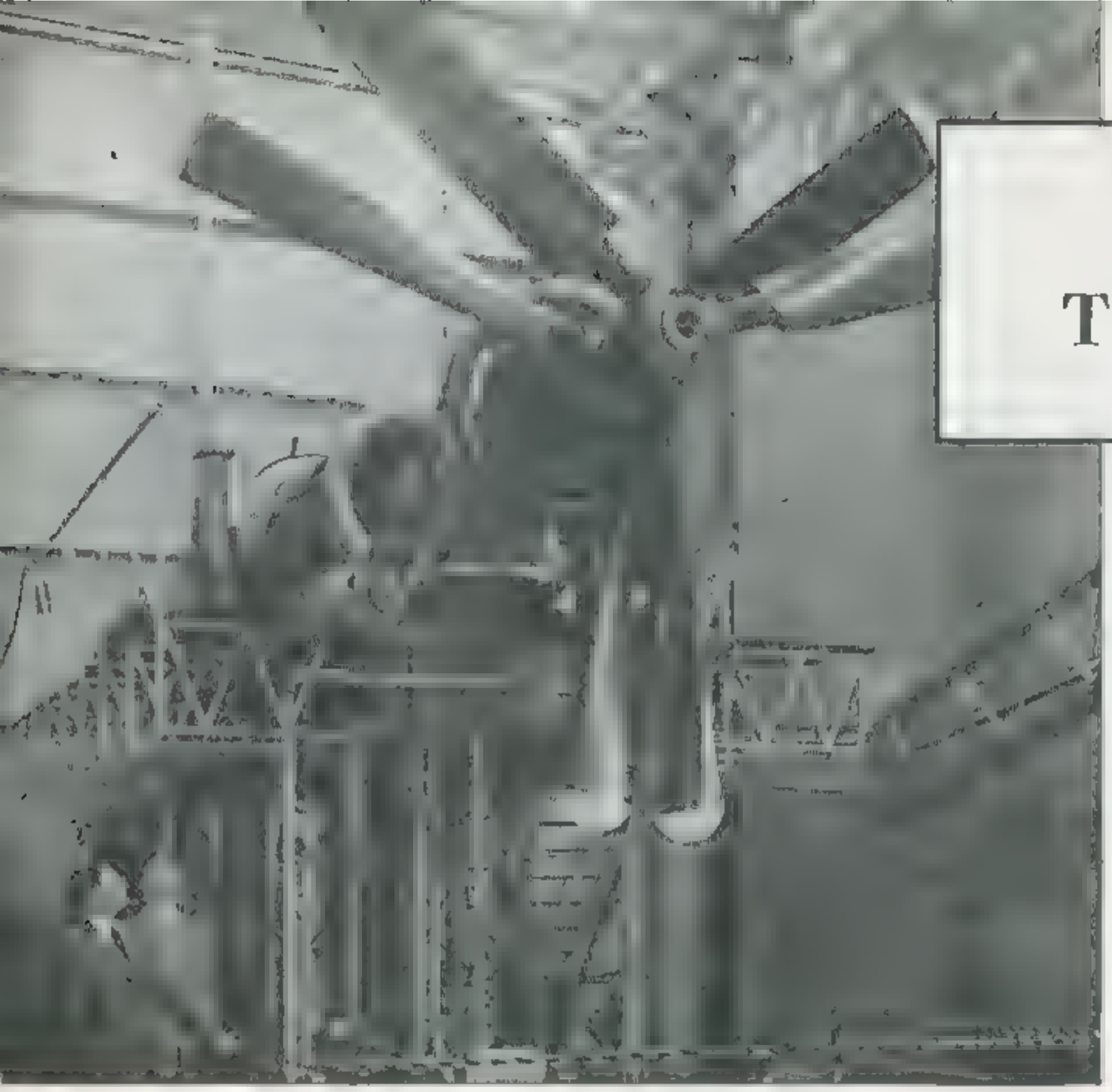
One serious fault that damages electrical equipment in just one of your aircraft could cost you more than G-E protective systems for your entire fleet. Can you afford *not* to investigate?

For more complete information get the new fact-crammed bulletin GEA 5628. Telephone your General Electric aviation specialist or write General Electric Company, Section 210-16, Schenectady 5, New York.

You can put your confidence in—

GENERAL ELECTRIC

210-16



IN THE NEWS

TURBOPROPS

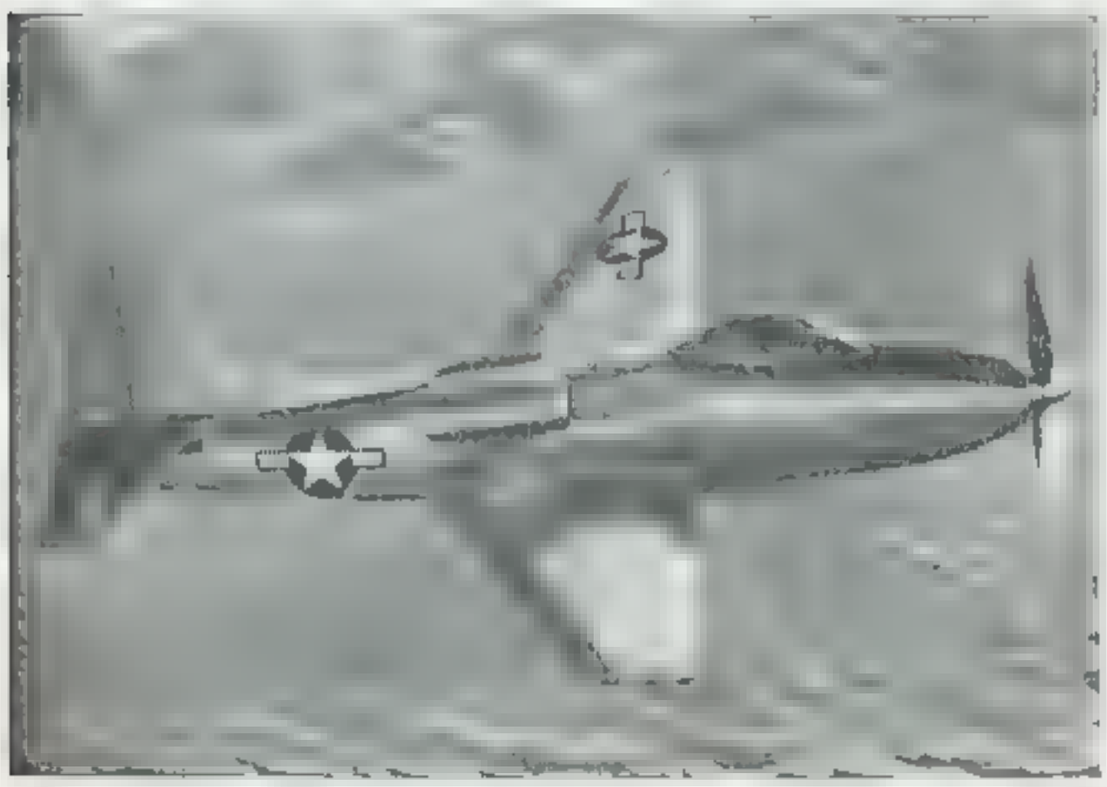
The Turbodyne, most powerful propeller-type aircraft powerplant in the country, delivers more than 8000 horsepower in addition to an undisclosed amount of thrust. Here, Jim LaPierre, manager of G-E's Aircraft Gas Turbine Divisions, and Virg Weaver, in charge of the Turbodyne project, take a look at the engine on the stand where it is undergoing rigorous tests.

Ten years ago, in July, 1941, G-E engineers started work on a new type aircraft powerplant—an axial-flow gas turbine driving a propeller. This was the TG-100, the first turboprop in the country and the forerunner of future powerful engines.

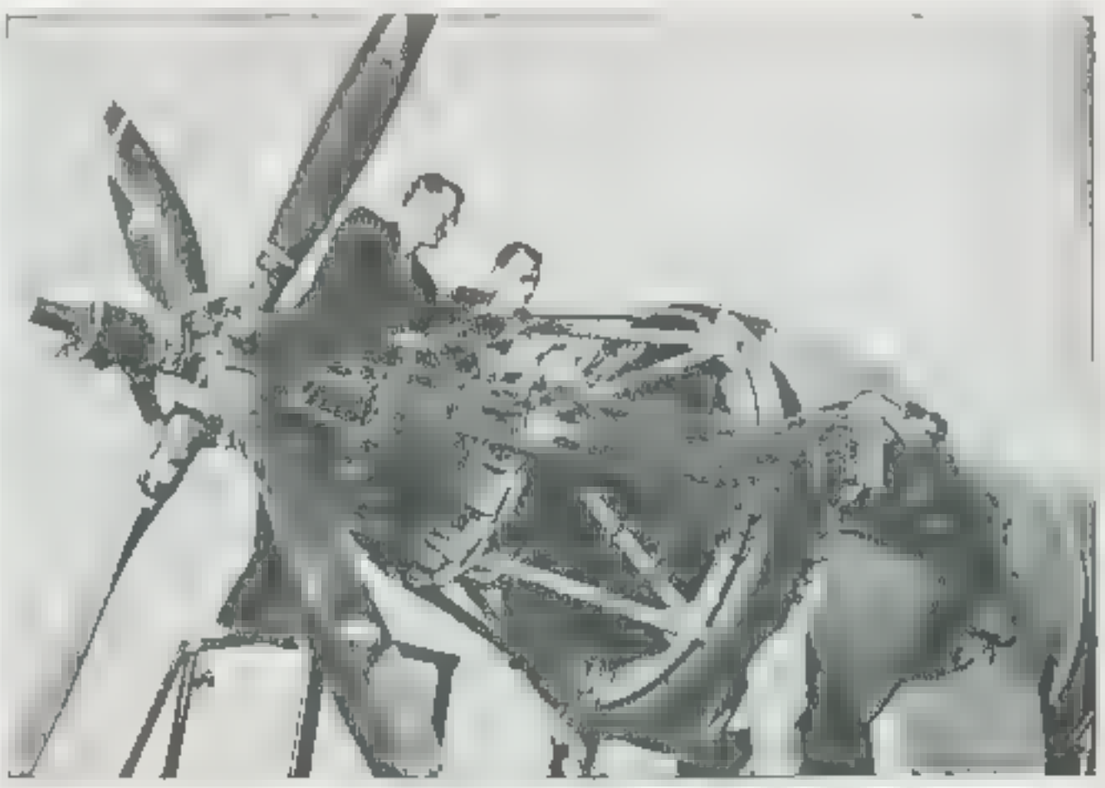
General Electric engineers today are experimenting with the Turbodyne, a Northrop development. Although larger than required for today's transport needs, the Turbodyne presents an ideal vehicle for testing new ideas and methods.

New and improved turboprop engines are in the books at General Electric. Light weight and high powered, these engines will someday be lifting new aircraft to new uses and new records.

When you're considering powerplants, call in the company that pioneered the aircraft gas turbine industry. Telephone your General Electric aviation specialist, or write General Electric Company, Schenectady 5, N. Y.



Convair XP-81, first turboprop-powered aircraft to fly in U.S., powered by TG-100, first American turboprop.



Design engineers Alan Howard and C. J. Walker, inspect an early TG-100 turboprop on test stand in Schenectady.

AIRCRAFT GAS TURBINES

GENERAL ELECTRIC

210-22

. . . Not Necessarily So! Especially if the engine is equipped with a dependable GLA ignition system. The Model ACD2-6 *high energy condenser discharge system*—specified for many of the latest air force aircraft—is typical of the many complete systems built by GLA. Their performance is uniform under varying conditions of operating environments.

We specialize in equipment which combines advanced electronic development with unique space and weight-saving design. Solving complex ignition problems and producing the equipment is our business—our Engineering Department invites your inquiry. May we hear from you?

GENERAL LABORATORY ASSOCIATES INC.
NORWICH, NEW YORK
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AIRCRAFT AND ELECTRONIC PRODUCTS

inverters, relays, alternators, etc.) being installed on modern military aircraft. All have to be filtered.

• **Increasingly sensitive** avionic receiving equipment requires more efficient filtering over wider ranges of frequencies. Existing frequency limits, Milton says, are 15 to 1000 megacycles.

• **More stringent demands** for smaller size, higher temperature and lighter weight units are compounding the filter designer's headache.

Milton told AVIATION WEEK that his firm could accomplish a 50-75 percent filter size reduction if called in during design stages of the unit to be filtered. The state of the art has advanced far beyond the early days of filtering when engineers "threw condensers across anything until it looked like Christmas tree ornamentation."

In the trim, modern Filtron plant, Flushing, N. Y., research is actively progressing in filtering to 1,000 mc. and beyond. At the same time, the firm offers a consulting service to manufacturers of equipment requiring filtering. Filtron will work with the engineers of these firms from the initial design stages to show them the most modern and advanced methods of mechanical bonding, shielding and filtering to reduce radio interference to irreducible minimums. Then, if necessary, custom-made filters will be provided for that particular piece of electrical equipment.

Filtron has, in its screen room labs, all of the approved testing equipment measuring up to 1,000 mc. as specified in the latest specs such as MIL-I-6181.

PAA Increases Overhaul Force

Pan American World Airways has doubled the force of mechanics at its Brownsville, Tex., overhaul shops to handle a two-fold project.

The airline is under contract to the USAF to overhaul 1,200 Pratt & Whitney R-1830 engines for C-47s. PAA has also moved in the overhaul of its nine C-46 cargo carriers from Miami where maintenance was being done by a private firm.

Amazing Aircraft Finish

Alvex

Sky-high in Quality!

CHAMBERLAIN AVIATION, INC.
AKRON 9, OHIO

make them more comfortable. The earphone itself is larger and flatter; an outer plastic shell houses glass fibers which are covered with latex rubber. A nylon cap over the assembly keeps the cold bare rubber from contact with the skin, and prevents the ear from sticking to the rubber due to suction.

The usual covered metal bands have been replaced by a snap-on netting. Two plugs and cord used for the earphones and mike have been reduced to one plug and one cord.

A helmet with built-in earphones is optional equipment. According to AMC, the new system will probably depend on earphones only during take-off and combat. At all other times, a speaker system probably will be used.

Designation of the new set is AN/AIC-10; eventually it is slated to replace all intra-plane communication sets now in use on fighters, bombers and transports.

Bendix Makes Tiny Airborne Amplifier

A tiny airborne amplifier, further emphasizing the avionics subminiaturization trend, has been developed by the Bendix Radio div. of Bendix Aviation Corp.

The amplifier is of the band-pass type with a rated gain of 130 db. It weighs less than two oz. and requires 35 component parts. (Equivalent amplifiers require as many as 240 parts and weigh 14 times as much.)

Bendix says that a new circuit technique has been developed which permits reduction of electrical components by a factor of six. Capacitors and resistors have been reduced in number to the point where component failures will be minimized and reliability improved.

Tubes are permanently wired into the amplifier; the entire unit is designed to be replaced in the event of tube or component failure. Its plug-in design means that replacement of the unit is a matter of seconds.

"We Use Glidair Finishes 100%"

...Globe Corporation Aircraft Division

GLIDAIR AIRCRAFT FINISHES TIME-TESTED

Navy KD2G-2 remote-controlled pilotless target aircraft. Must withstand temperature range of 0—120°F. Navy specification requires 25 hours of service life, regardless of repeated immersions in salt water upon landing.

The Reasons: QUALITY, PERFORMANCE, SERVICE

For eleven years, Globe Corporation, Aircraft Division, has used Glidair Aircraft Finishes *exclusively* on target aircraft for the U. S. Navy. Now, with stepped-up production on its new pulse jet-powered pilotless model, Globe depends more than ever on Glidden ... for Glidair primers and lacquers that exceed government requirements ... for prompt, sure deliveries ... and for technical service that helps speed production.

To get the *right* finish for any aircraft application—civilian or military—plus expert technical guidance, contact your Glidair representative, or write:

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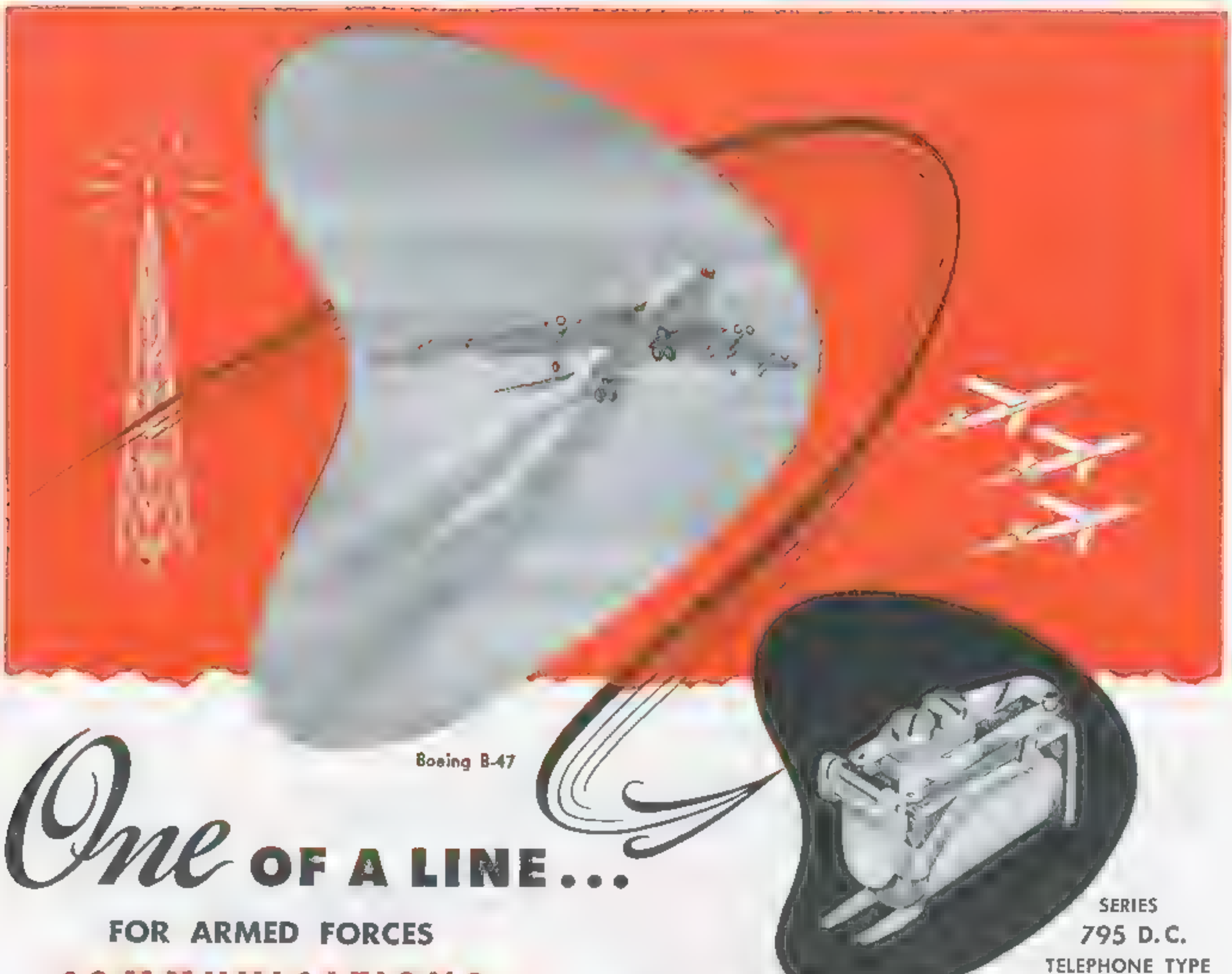
GLIDAIR Aircraft Finishes for every purpose

Quality Glidden Products



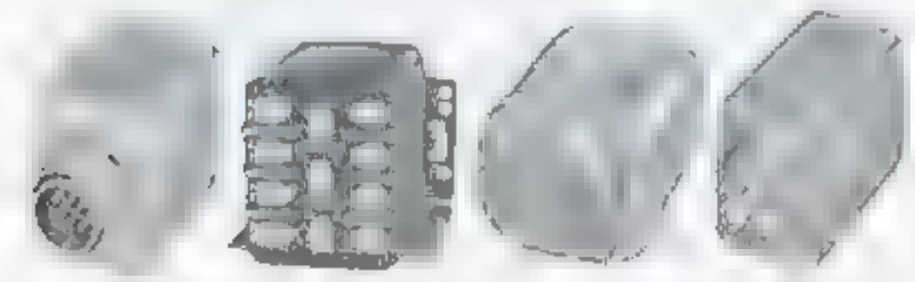
Boeing B-47

One OF A LINE...

FOR ARMED FORCES COMMUNICATIONS...

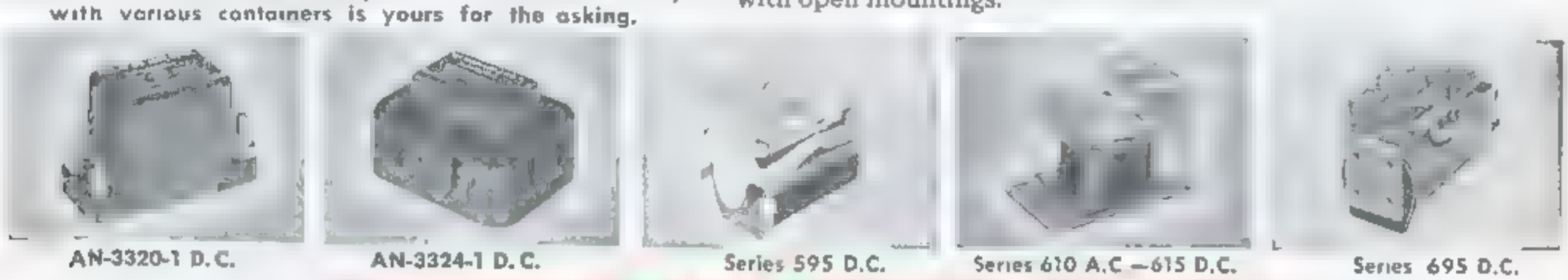
"GUARD-A-SEAL" CONTROLS »»

Guardian engineering developments of hermetically sealed containers specifically designed for aircraft.



A N CONNECTOR SCREW TERMINAL LUG HEADER OCTAL PLUG

NEW CATALOG on Hermetically Sealed Guardian Relays with various containers is yours for the asking.



SERIES 795 D.C. TELEPHONE TYPE RELAY

In presenting the Series 795 D. C. Telephone Type Relay, Guardian Electric offers to designers of finest precision communications equipment a relay that integrates ideally with every communications circuit ... *hermetically sealed* to withstand vibration, impact, heat, cold, moisture, salt air, sand, dust and mold. Name your need —"Guard-A-Seal" relays to fly the mighty B-47 or a tiny subminiature control assembly; jet fighter flight switches or switches for vending control; mechanisms for a giant big-league scoreboard or a compact liquid level control—get them all at GUARDIAN. Over 35,000 standard parts to speed orders—plus a TOP ENGINEERING STAFF to solve "special problems". The Series 795 D. C. is available in Lug Header containers and to specifications in A.N. Connector, Screw Terminal or Octal Plug housings. Also obtainable with open mountings.

AN-3320-1 D.C.

AN-3324-1 D.C.

Series 595 D.C.

Series 610 A.C —615 D.C.

Series 695 D.C.

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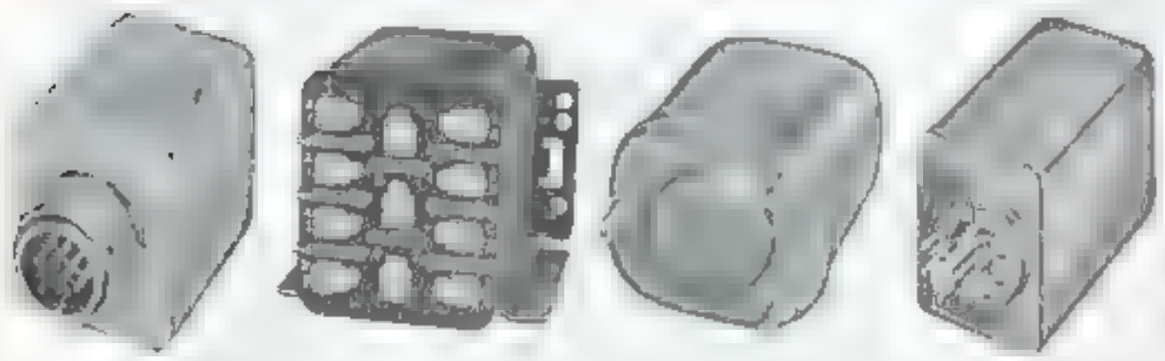
"GUARD-A-SEAL" CONTROLS »»

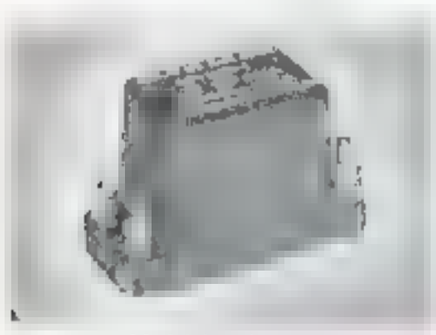
Guardian engineering developments of hermetically sealed containers specifically designed for aircraft.

for Airborne—or Portable Equipment

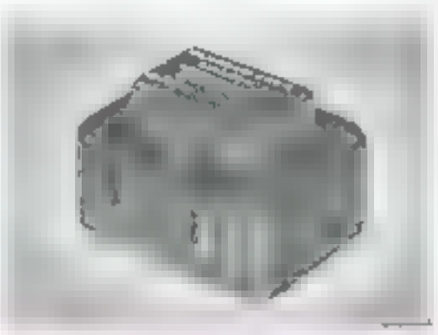
Put jet action into your electrical control design! *Consult* Guardian where many controls, seemingly "Special" in nature, can be produced from more than 35,000 standard Guardian parts. *Consider* the sensational "Guard-a-Seal" units—developed specifically for aircraft and portable equipment—sealed in *aluminum.* Designed to incorporate heavier frames, larger contacts, higher capacity, yet qualified under all AN weight requirements because *the weight is in the relay—not the can!*



A. N. CONNECTOR SCREW TERMINAL LUG HEADER OCTAL PLUG



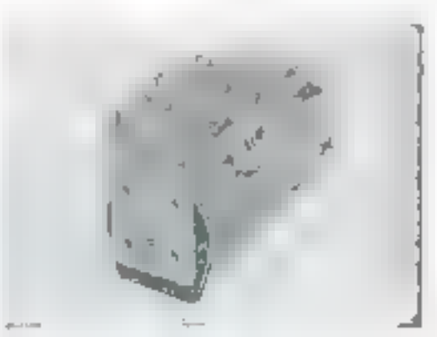
AN-3320-1 D.C.



AN-3324-1 D.C.

Series 595 D.C.

Series 610 A.C.—615 D.C.



Series 695 D.C.

SEE ... FOR ... SIGNATURE CONTROLS—WRITE

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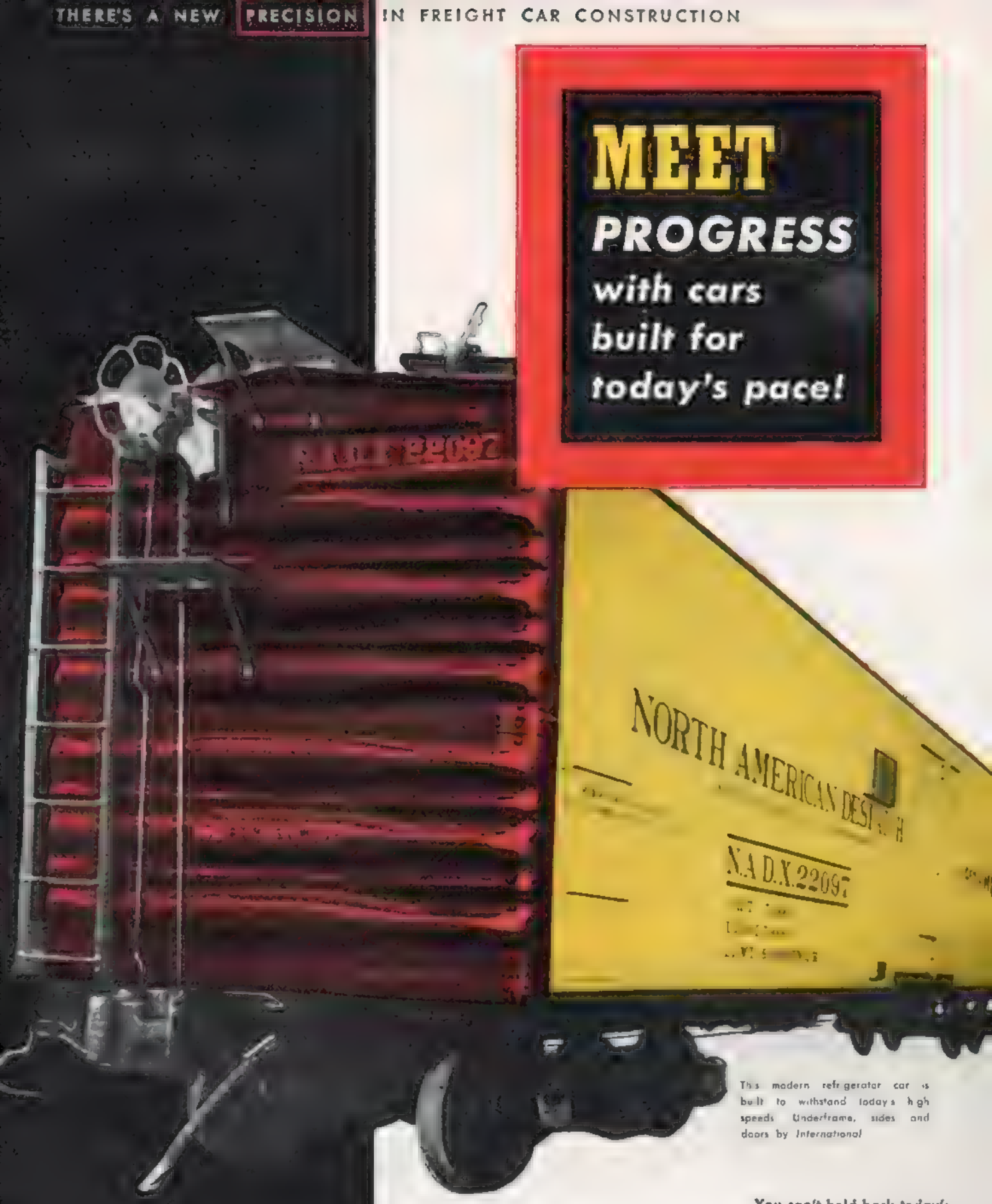
A COMPLETE LINE OF RELAYS SERVING AMERICAN INDUSTRY

THERE'S A NEW **PRECISION** IN FREIGHT CAR CONSTRUCTION

MEET PROGRESS

with cars built for today's pace!



This modern refrigerator car is built to withstand today's high speeds. Underframe, sides and doors by *International*

You can't hold back today's progress to match yesterday's construction techniques—look to *International* for the new precision that makes *today's* cars for *today's* pace!

INTERNATIONAL STEEL COMPANY RAILWAY DIVISION

EVANSVILLE 7, INDIANA

A million Btu per hour! That's the total capacity of the six Janitrol heaters aboard this brilliant new transport. "Comfortization" of the cabin is provided by two Janitrol S-100 heaters from which warm air is ducted to individual outlets for the passengers. The same heaters also warm the cockpit and provide windshield anti-icing. In addition, four S-200 heaters are installed in the engine nacelles for wing, vertical stabilizer, and tail surface de-icing. All four of these heaters are connected by ducts to a common plenum located beneath the cabin compartment from where heat is directed to the wing and tail surfaces. Eastern and TWA, like most airlines, have had long experience with Janitrol combustion heaters which led them to specify "Janitrol" with full confidence in their dependability, performance, and economy. Consult your Janitrol representative on any problems concerning heat—wherever you want it.

NEW STORY

Eastern and TWA specify Janitrol heat in the Martin 4-0-4

OLD TWIST

Janitrol now standard equipment in the 4-0-4, as on scores of leading commercial and military aircraft.

AIRCRAFT AND AUTOMOTIVE HEATERS *with the whirling flame*

Janitrol

AIRCRAFT-AUTOMOTIVE DIVISION SURFACE COMBUSTION CORP., TOLEDO 1, OHIO

F. H. Scott, New York, N. Y., 225 Broadway; C B Anderson, Kansas City, Mo., 2201 Grand Ave., Lee Curtin, Hollywood, Calif., 7046 Hollywood Blvd.; F. H. Scott, Washington, D. C., 4650 East-West Highway; Frank Deak, Phil Miller, Can. District Office, Engineering Development & Production, Columbus, O.; Hdqrs., Toledo, O.

Franklin County

Franklin County, adjoining the eastern border of Oxford County, is one of the so-called northern tier of Maine counties whose northern limits stretch into the great expanse of forests, lakes and mountains contiguous to the Canadian border.

In the southern section of the county it is bisected by the fertile valley of the Sandy River, while the west central section contains the eastern half of the world-famous Rangeley Lakes region.

Farmington, in the south, is the shire town and hub of the county, with good roads leading from it to the many smaller towns and villages, through rolling country of indescribable beauty, dotted with lakes, blue-capped hills and picturesque forest—emerald green in Summer, dark in Winter, multi-colored in Spring and gorgeously gay in Autumn from the valleys to the rounded summits.

Farmington is the main highway gate to the Rangeley and Dead River regions and the business and commercial center of a great agricultural, orcharding and recreational region. Sweet corn, canning peas, potatoes, dairying and small grains are raised in abundance in this section. Farmington also is the birthplace of Madame Nordica, whose home is a shrine open to visitors and here also is the home of Jacob Abbott, author of the famous Rollo books and many others. The famous Abbott family school for boys was opened here in 1841, achieving national fame as the Little Blue School. Here also is one of the State's best known teachers' colleges. Clearwater, Norcross, Varnum and Wilson Lakes are nearby. There is bass fishing in the Sandy River and trout abound in the nearby streams that flow from the countless springs that gush from the hillsides.

Southwest of Farmington is Wilton, with a beautiful panorama of Wilson Lake. With its sporty golf course and unequalled facilities for boating, canoeing, swimming, fishing and other lake sports, it is a favorite of vacationers and picnickers. The famous Wilton Woolen Mill, Bass Shoe Factory and wood products and canning plants provide industrial income for hundreds of nearby

(Continued on Page 54)

KENNEBAGO LAKE CAMPS and LODGE

"At the end of the road on beautiful Kennebago, where your happy holiday is our pleasure."

Main Lodge, Dining Room, Cocktail Lounge, charmingly rustic. 28 cabins, modern conveniences, hotel service.

Two Outlying Housekeeping Camps

SEASON: MAY 24 TO DECEMBER 1

FAMED for FLY-FISHING, guide instruction for novices; wide variety of SUMMER SPORTS, including horses, tennis, archery, surf board, water skis, natural gradual sandy beach; HUNTING on trails and territory reserved for Kennebago guests. Country Kitchen Food, Maine Lobster, American Plan. Protestant and Catholic Churches nearby.

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BUD RUSSELL Ownership-Management Address: May—Kennebago Lake, Maine; Dec.—Rangeley, Maine

New England Hospitality

and DELICIOUS MAINE FOODS await the traveler at The Lafayette.

Shore dinners — chowders — broiled live lobsters.

Gateway to Maine's Vacationland.

Ideal Center for memorable day trips along Maine's rockbound coast,
lovely Sebago Lake Region and the White Mountains
All day sails on beautiful Casco Bay with its 365 interesting islands

COMPLETELY SPRINKLERED FOR YOUR PROTECTION

Single Rooms With Bath
$4.00 to $6.00
Double Rooms With Bath
Double Bed $7.00, $8.50
Twin Beds $8.50, $9.50

Air Conditioned Lounge

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PORTLAND MAINE

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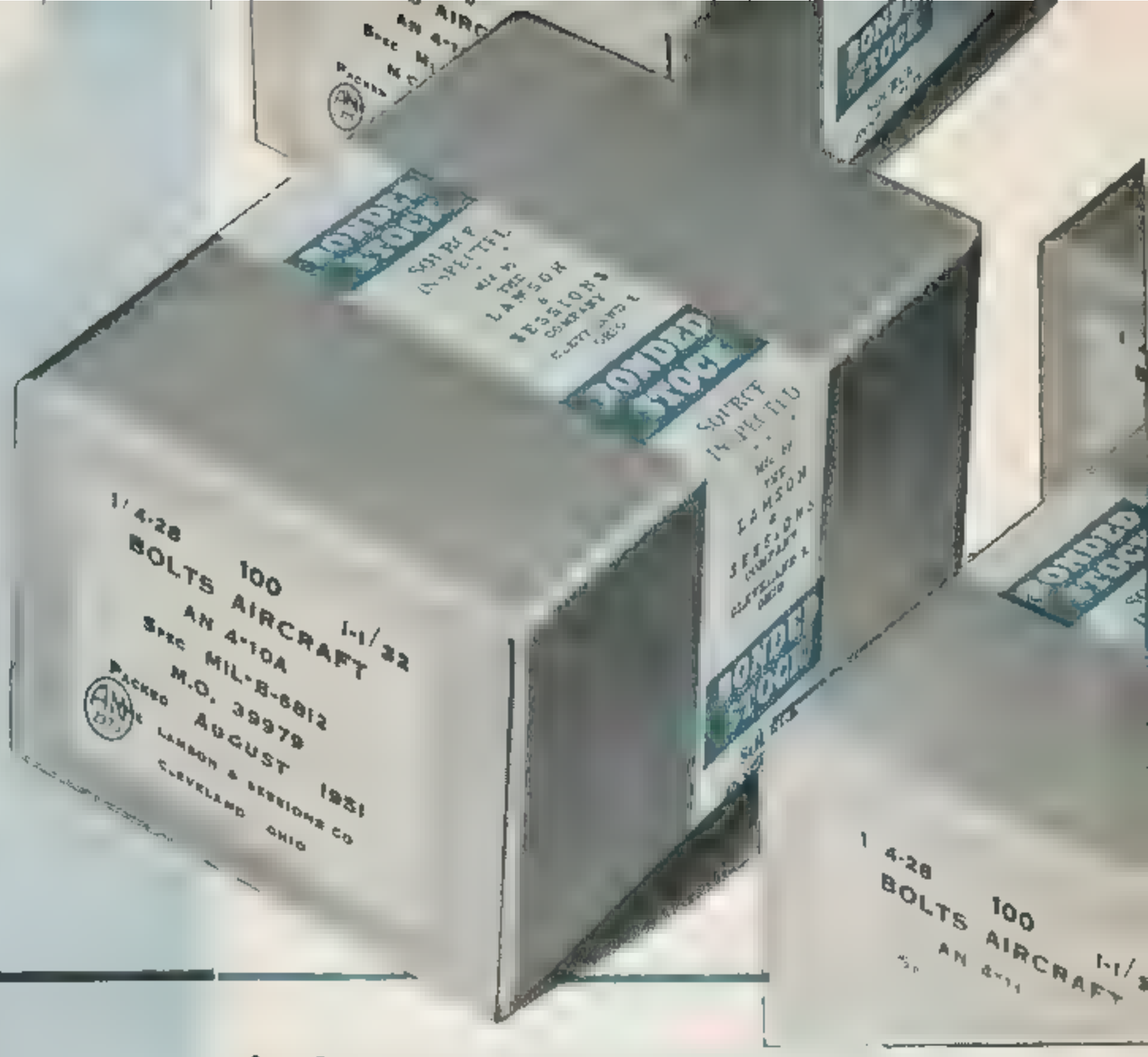
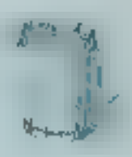
aircraft manufacturers:

Here's what SOURCE INSPECTED BONDED STOCK means to you



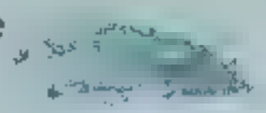
The "Old" Way:

1 Fasteners shipped in bulk to you through your distributor without source inspection. This requires considerable paper work with certifications of chemicals and physicals. You must keep such paper in your files so you can dispose of the material if it becomes "Excess" or "Surplus".



2 Bulk storage complicates inventory control, makes possible mixing different types of fasteners and makes issuance to the assembly line costly and time consuming.

3 Fasteners in bulk, when declared surplus, have, in the past, been found to have little more than scrap value.



The Lamson SOURCE INSPECTED-BONDED STOCK way:

1 All fasteners sample inspected in accordance with approved sampling charts, inspection-stamped at the source. Individual cartons packed in easy-to-handle packing cases. No certification required—the sealed carton with inspection stamp is all that is needed.

2 Packages plainly labeled with contents . . . size, part number, specification, when manufactured and by whom. Storage and inventory control is greatly simplified. Withdrawal from stock or stores is quick and easy—no counting out—just so many unit packages or cartons.

3 Source Inspected Bonded Fasteners are "like money in the bank". If declared surplus they can be disposed of at market prices without "red-tape".

Remember IT'S TRUE ECONOMY TO SPECIFY SOURCE INSPECTED-BONDED AIRCRAFT FASTENERS!

Source Inspected—Bonded Stock

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Don't guess on runway lighting; use

L-M Airport Lighting Engineering Service

The planning of an airport runway lighting system is vitally important. So L-M offers you a complete runway lighting engineering service.

L-M has been in the airport lighting business for many years. Its engineers know lighting. More important, they know what the pilot must see, and do, when he is coming in for a landing. The *aviation* problems of a runway lighting system are as important as the electrical and the optical problems.

L-M has an extensive staff of field and headquarters engineers who are familiar with airport lighting problems and requirements and whose services are available to you.

The service includes analysis of the problem, planning, consultation, specifying of equipment that will meet the requirements and come within the budget; checking of the installation; and instruction of your personnel to assure efficient, economical operation of the lighting.

Get this Engineering Data Check Sheet

Ask the L-M Field Engineer for the L-M Airport Runway Lighting Data Check Sheet, or write Line Material Company, Airport Lighting Division, Milwaukee 1, Wis. (a McGraw Electric Company Division).

LINE MATERIAL . . . Airport Lighting

Here is some of the complete L-M Equipment for Small and Large Airports

L-M's famous 180,000 cp controllable-beam high intensity runway light, type L 818.

L-M high intensity unit with fixed focus, type L 819.

L-M medium intensity runway light for smaller airports, and for taxiways at larger airports.

L-M revolving beacon for Class I, II, and III airports.

L-M marker and obstruction lights, single or double.

L-M control panels for large and small airports.

for better runway lighting...
L-M AIRPORT LIGHTING ENGINEERING SERVICE

L-M offers a complete engineering service for airports on runway lighting. L-M airport engineers know the lighting problems. What's more, they know the problems of the pilot as he comes in for a landing. They know what happens to runway lights under minimum and emergency conditions—the effect of fog, daylight snow, rain, and dust —and how far light can penetrate these conditions. That experience is valuable—it's available to you!

L-M Field Engineers throughout the country are backed by experienced district lighting engineers and a complete engineering staff at airport lighting headquarters.

To get this service, fill out a copy of the Engineering Data Check sheet shown below. You can get this sheet by asking the L-M Field Engineer who calls on you, or by writing Line Material Company, Airport Lighting Division, Milwaukee 1, Wisconsin (a McGraw Electric Company Division).

SOME L-M-LIGHTED AIRPORTS

L-M runway lighting is in operation at small, medium, and large airports all over the world. With its various types of units L-M can serve practically any airport Below are listed some of the principal airports with L-M High Intensity Runway Lighting. Most of these have the latest-type 180,000 candlepower unit with the famous L-M controllable beam, some have the fixed focus type. In addition there are many, many airports with L-M medium-intensity units. If you are interested, ask for a list of L-M-equipped airports in your area.

Worcester, Mass.
Boston
Windsor Locks (Hartford), Conn.
New York (La Guardia)
New York International
Newark
Philadelphia International
Raleigh, N. C.
Winston-Salem, N. C.
Columbus, O.
South Bend
Indianapolis
Lansing
Battle Creek
Chicago
Milwaukee
Madison
Minneapolis-St. Paul
Sioux City, Ia.
St. Joseph, Mo.
St. Louis
Bristol, Tenn.
Chattanooga
Knoxville
Nashville
Jackson, Miss.
Birmingham, Ala.
Jacksonville, Fla.
Oklahoma City
Rapid City, S. D.
Phoenix
Salt Lake City
Arcata, Calif.
Pocatello, Idaho
Seattle
Spokane
Rinneana, Ireland
Dublin
Amsterdam
Brussels
Paris
Tel Aviv
Teheran
Shanghai
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L-M's famous 180,000 cp controllable-beam high intensity runway light, type L 818.

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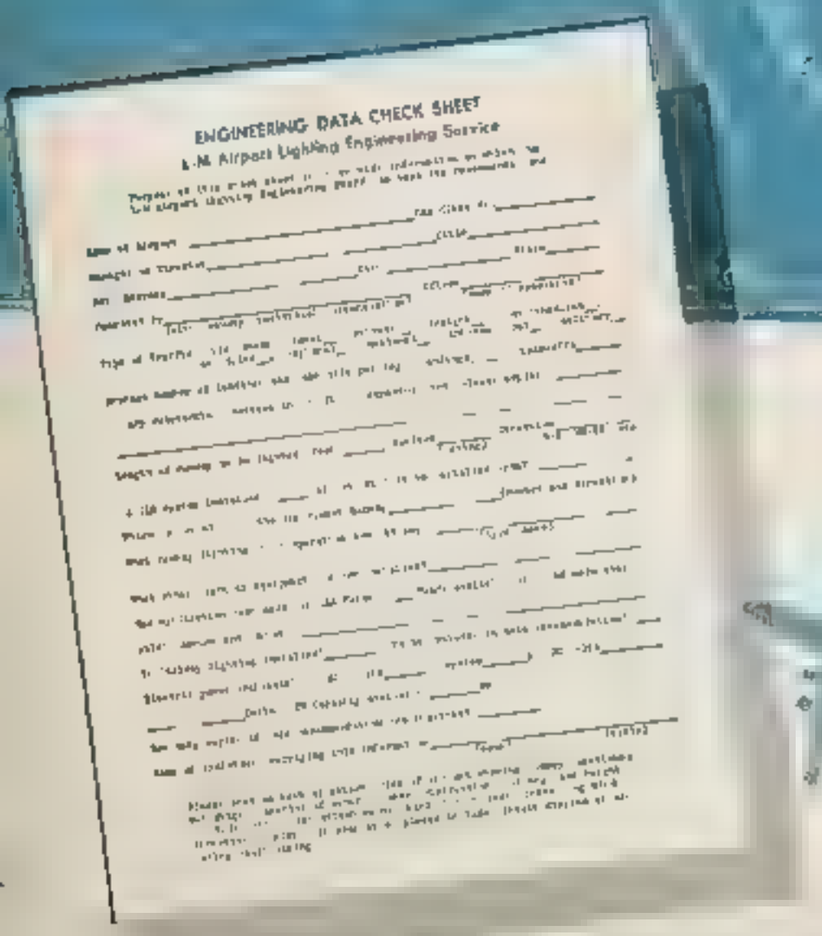
L-M medium intensity runway light for smaller airports, and for taxiways at larger airports.

L-M revolving beacon for Class I, II, and III airports.

L-M marker and obstruction lights, single or double.

L-M control panels for large and small airports.



Get this Engineering Data Check Sheet Free

A simple way to check the information and data on which to determine the runway lighting requirements for your airport. Sent free on request to airport managers and others concerned with runway lighting installations.

Again this week!

Experienced Constellations will add another 100,000 miles to their Record of Dependability

Lockheed

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Lockheed

BEGINS WORK ON GIANT JET BOMBER

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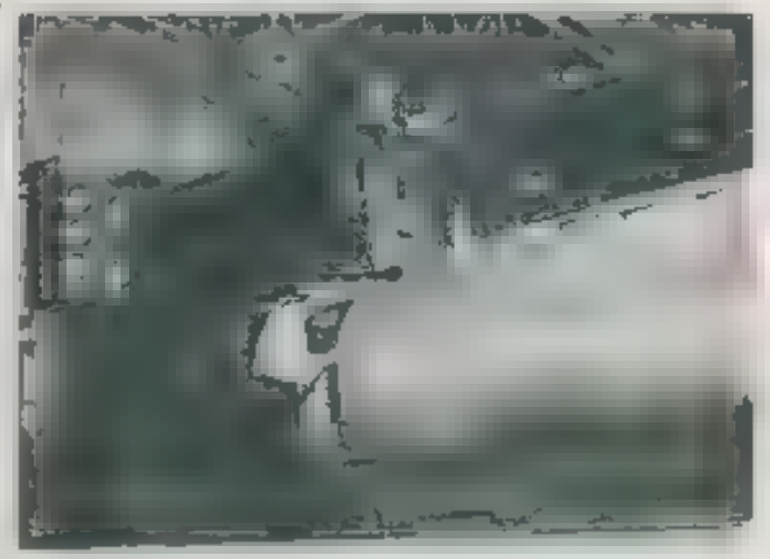
Post and Future of Lockheed



HUGE WELDER with 60-in throat really handles giant external fuel tank

New Tools for Speed Welding

Ryan installs giant resistance welding machines for handling large parts—employes develop sequence timer

A new—and giant—tool will be put into operation in the Ryan plant at San Diego this month. Technical improvement will be to speed production of mammoth external aluminum alloy fuel tanks—reported to be the largest ever built for a fighter-type aircraft. These resistance-welded, one-piece tanks are protuberance-free, with gas-tight seams that eliminate the need for sealing compounds.

LONG-WOOD LODGE AND COTTAGES

Long Lake at Naples, Maine

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FOR YOUR VACATION PLEASURE

MODERN INDIVIDUAL COTTAGES [illegible] screened-in verandas, most comfortably and attractively furnished in maple, and situated to allow privacy

THE FINEST FOODS [illegible] knotty-pine dining room at the water's edge

ACTIVITIES . . . among the many recreations Long-Wood Lodge guests are: Private Sandy Beach—Boating—Badminton—Game Room—Tennis—Shuffleboard—Ping-Pong—Lighted Golf Putting Green—Fishing—Hiking

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On Long Lake *Naples, Maine*

IN THE HEART OF THE SEBAGO-LONG LAKE REGION

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Amid the fragrance of pines, Squirrel Inn overlooks the c[illegible]
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[illegible] mi es from Boothbay Harbor — half-hourly boat servi[illegible]
young and o d. Swimming [illegible]
dancing. Exce ent [illegible]
with view of sea.

Open June 30—American Plan—Single rooms $45 and up per week
Double rooms $90 and up
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A Vacation Resort on the Coast of Maine

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A comfortab e, home ke hotel, located at water s edge of beautiful Boothbay Harbor, one mile from Vi age. Shaded lawns, wide verandas and ample lounging rooms. Only hotel in Boothbay Reg on equipped w th automat c fire sprinkler system.

Attractive boat rides from hotel pier. Near all churches and amusements. Summer season. Hotel operated garage.

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COVESIDE INN

CHRISTMAS COVE MAINE

MR. and MRS. GUY WARE, Proprietors

From Boothbay, site of a popular summer theater, Route 27 leads to Boothbay Harbor, hub of a popular summer resort region, with excellent facilities for fishing, bathing, yachting and boat trips. The annual Maine Tuna Tournament is held here. Fine hotels, guest houses, cabins, good restaurants, gift shops and stores accommodate every need of the visitor. Spruce Point, east of the harbor, is a secluded resort area, as are the communities of Southport, West Southport and Newagen, these latter on an island connected by a short causeway over Townsend Gut. This Island is heavily wooded and a delightfully cool summer haven.

East of Boothbay Harbor is East Boothbay, picturesque boat building village on the Damariscotta River and Lineken Bay, with popular Ocean Point at its seaward tip.

Squirrel Island is one of the oldest resorts in this section and is the summer home of college professors and others nationally known in literature, the arts and business. Another island off shore is Damariscove, while ten miles out is Gibraltar like Monhegan, goal of yachtsmen and turning point of a yacht race course.

THOMPSON INN

Everything you need for a real rest at SOUTH BRISTOL on Maine's beautiful coast. Inn and Cabins overlook John's Bay. Interesting land and water trips. Golf, Boats Tennis, Bathing and Deep Sea Fishing. Woodland Trails. Specialists in Maine sea foods. Rates $35 to $45 per week American plan. Friendly clientele

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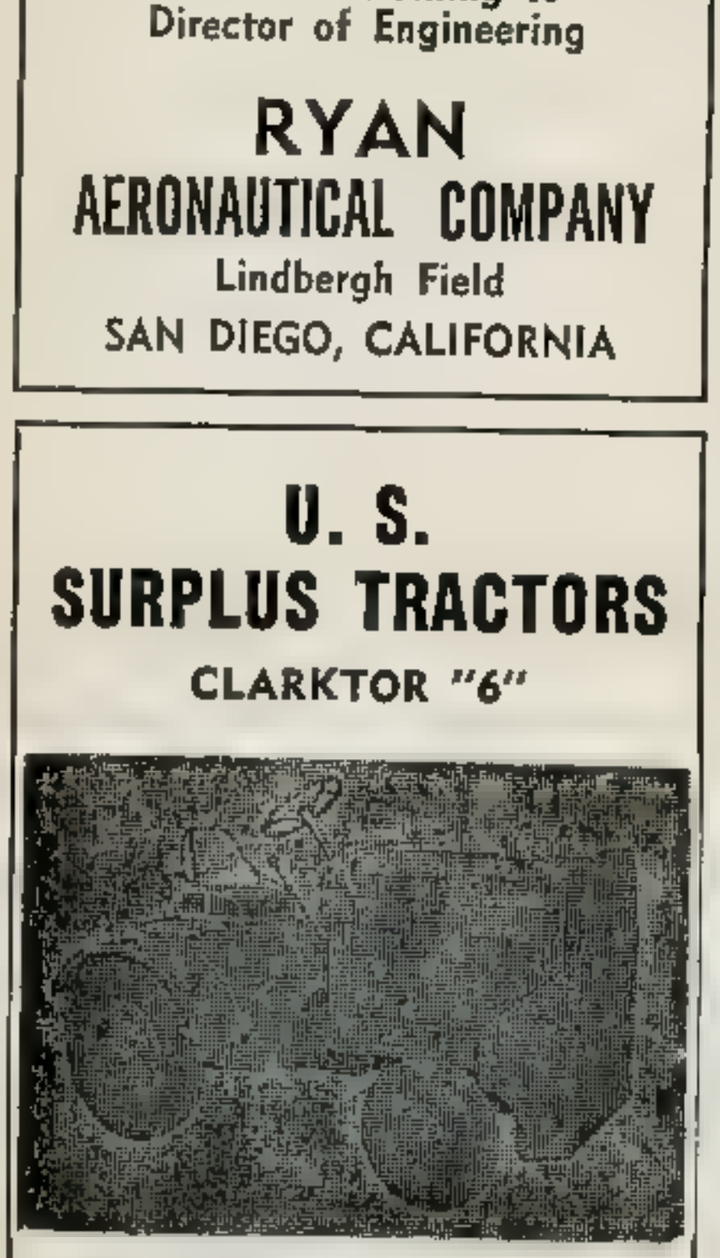

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2 C-47A's, 2 C-47B's, 1 C-53

All low-time aircraft owned by Mallard. They are powered by P & W 1830-92's and are clean and sound throughout. They can be custom-converted by Mallard to meet your exact needs in executive or executive-cargo air transport with devices and appointments tailored to your operational requirements.

These ships represent outstanding value, and we will be glad to discuss their suitability to your needs. **Write or phone Robert M. Hewitt, Hasbrouck Heights 8-1404. Teterboro, New Jersey.**

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One of the finest in the country—just licensed by the CAA—has Wright 1820-87 engines—only 20 hours on each since major overhaul—new ARC Omni—ARC-1 VHF—dual ADF—beautiful new executive interior—rich but conservative in design—beautifully polished—everything like new inside and out.

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Powered by the famous and dependable P&W 1830-92 engines. Airframe originally modified by Lockheed factory. This is a beautiful low-time airplane. Just re-licensed. New interior now being planned. Choice of upholstery if purchased immediately. Must be seen to be appreciated.

Price $78,000.00. Dont Write
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Speedy Seal for De-icer Valve

Marman V-Band Couplings provide high pressure seal on cowling de-icer valves of Convair's B-36D jet engine These applications in the bomber's newly added jet pods are typical of many throughout the aircraft. Marman Coupling's quick assembly, light weight, and positive action contribute greatly to efficient production and performance.

Photos courtesy Convair Corp

ENGINEERS' NOTEBOOK

Hot Couplings on Jet Engine

Marman V-Band Couplings demonstrate their versatility and resistance to high temperature on the jet burners of the B-36's new J-47 engines Quick-Couple latches provide almost instantaneous assembly and disassembly saving production and servicing time

Save Cost, Time and Weight with Marman Standard Clamps for Special Applications

FOR INFORMATION, WRITE DEPT. W-6

MARMAN PRODUCTS CO. INC.

940 WEST FLORENCE AVENUE

INGLEWOOD, CALIFORNIA

valve which can be manually shut off by the operator from the top deck or the ground to stop the flow of gasoline from the tank to the pump in an emergency.

Filters in the system are oversize and designed to screen out particles larger than 10 microns. While they are not designed as water separators, they actually function in this capacity since fuel passes through them slowly because of their large size, states Esso Standard Oil

The semi-trailer tanker weighs about 55,000 lb. fully loaded. All axles are provided with the latest type full air brake equipment. The refueler is designed for overwing loading, but also can be quickly converted to underwing loading, Esso says.

Insulating Tubing

Fluoroflex "C" protective insulation for electrical wiring in aircraft is designed to stand up to "severe service" conditions encountered in military planes. It is being produced by Resistoflex Corp., Belleville, N. J.

The tubing is a flexible, non-flammable type, engineered to perform in the frigid atmospheres of high altitude or in heated atmospheres around jet engines

According to Resistoflex Corp., it retains good dielectric properties and high tensile strength while subjected continuously to temperatures ranging from —150 to 375F. The transparent tubing reportedly is already in use in some aircraft

Fluoroflex "C" is said to be unaffected by concentrated acids, alkalies, gasoline, oil, water, high humidity or tropical exposure. It is made to order in sizes up to ½-in. dia

Joint Sealer

"Leak Lock," a joint-sealing compound designed to prevent leakage of jet engine fuels is being marketed by Highside Chemicals Co

Tests by one of the largest aircraft engine manufacturers in the country have shown the new compound to be "highly successful" in preventing leaks of jet fuels at high temperatures, says the company.

And it does this without freezing the joint tightly, it adds.

The firm explains it has been difficult to prevent leakage of jet fuels at threads and flanged joints with a non-hardening compound because of the presence of aromatics, mercaptans and other powerful solvents. Leaks were particularly troublesome when jet fuels were handled at high temperatures on engine and carburetor test stands, it says. Highside Chemical Co.'s address is 10 Colfax Ave., Clifton, N. J.

York County

"Maine in a nutshell"—that's how a Maine visitor once described York County. For here in this "southern gateway to Maine" the State's travelling guest finds every form of natural advantage for vacationing, from world-famous beaches of sparkling white sand, from lakes and hills and streams to quaint, historic hideaways of inland country and shore where for more than 300 years people have found relaxation and peace.

To 70 per cent of Maine's vacationers, the wonders of the State begin to unfold in York County. At Kittery, only 50 miles north of Boston, at Eliot, the Berwicks, and Lebanon, the main traffic arteries enter the State from the South.

At Kittery is the major highway entrance into Maine from the south over the Maine-New Hampshire Interstate toll bridge (10 cents), entered from the New Hampshire Turnpike, or through Kittery proper over the older Memorial Bridge (free) on Route One. Both routes flow into the intersection of U. S. Route One and the Maine Turnpike, at which junction is located the new Maine Information Center, operated by the Maine Publicity Bureau. This building also contains an exhibition hall for the display of Maine products.

The Maine Turnpike and Kittery tollhouse is entered at the left of the triangular intersection, while U. S. Route One continues at the right of the intersection. The parking area and driveway in front of the Maine Information Center gives access to both the Maine Turnpike and Route One. The Maine Turnpike is a 45-mile toll superhighway leading to Portland and South Portland, with exits and entrances at Wells, Kennebunk, Biddeford, Saco and Scarborough Downs race track. The Maine Turnpike is characterized as "the fast route," while Route One is known as "the scenic route," through historic coastal cities and towns, with glimpses of shore scenery and numerous access roads directly to shore and beach areas.

Along the shore travel line from Kittery, site of the so-called "Portsmouth" Navy Yard, one comes to the historic and beautiful town of York, with its neat sand beaches, spectacular cliffs and quiet rural hamlets, favorite havens of writers, artists and tourists. York Village, York Harbor and York Beach all are strung out like pearls along a branch of Route 1A. The first chartered city in America, York was a popular summer playground for the Indians before it became a Royal Colony in 1641.

Ogunquit, locale of one of America's great summer theatre activities and a world-famous art colony, is an Indian name meaning "Beautiful Place by the Sea." Its

(Continued on Page 14)

The Marshall House
YORK HARBOR MAINE

Combining a breathtaking view with every modern convenience and a fireproof building, there is good reason why The Marshall House—after 80 years—s one of America's outstand ng vacation hotels. Better than ever this year, we offer every recreation facility including private tennis courts and salt water swimming pool, putting green and shuffleboard, fishing, and golf on a championship Donald Ross course. We also offer symphony concerts, country dances, clambakes, wonderful food, an attractive cocktail lounge, and a wide sandy beach. You'll enjoy every minute of your visit.

Edward W. Marshall, President
Robert C. Trier, Jr., Manager

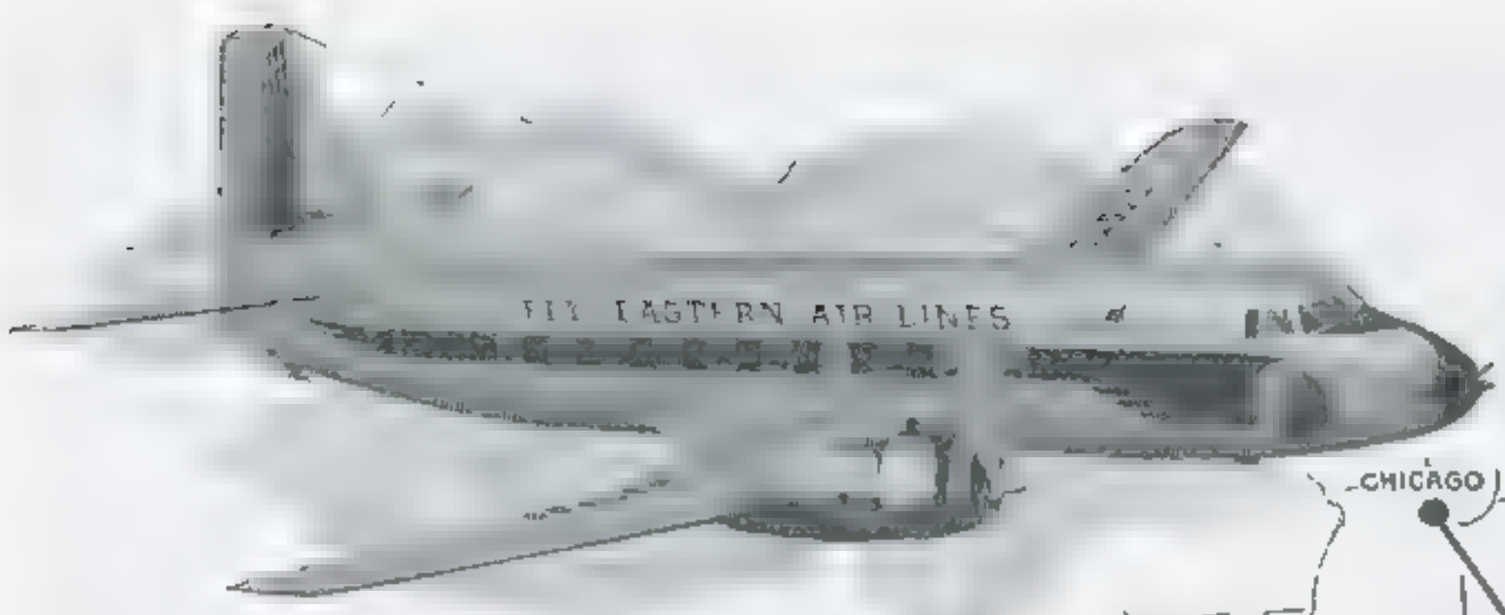
GRACIOUS living in a picturesque setting. You'll love the comfortable rooms, good food, and friendly service. There's lots to do: boating, bathing, fishing, golf, and just plain loafing.

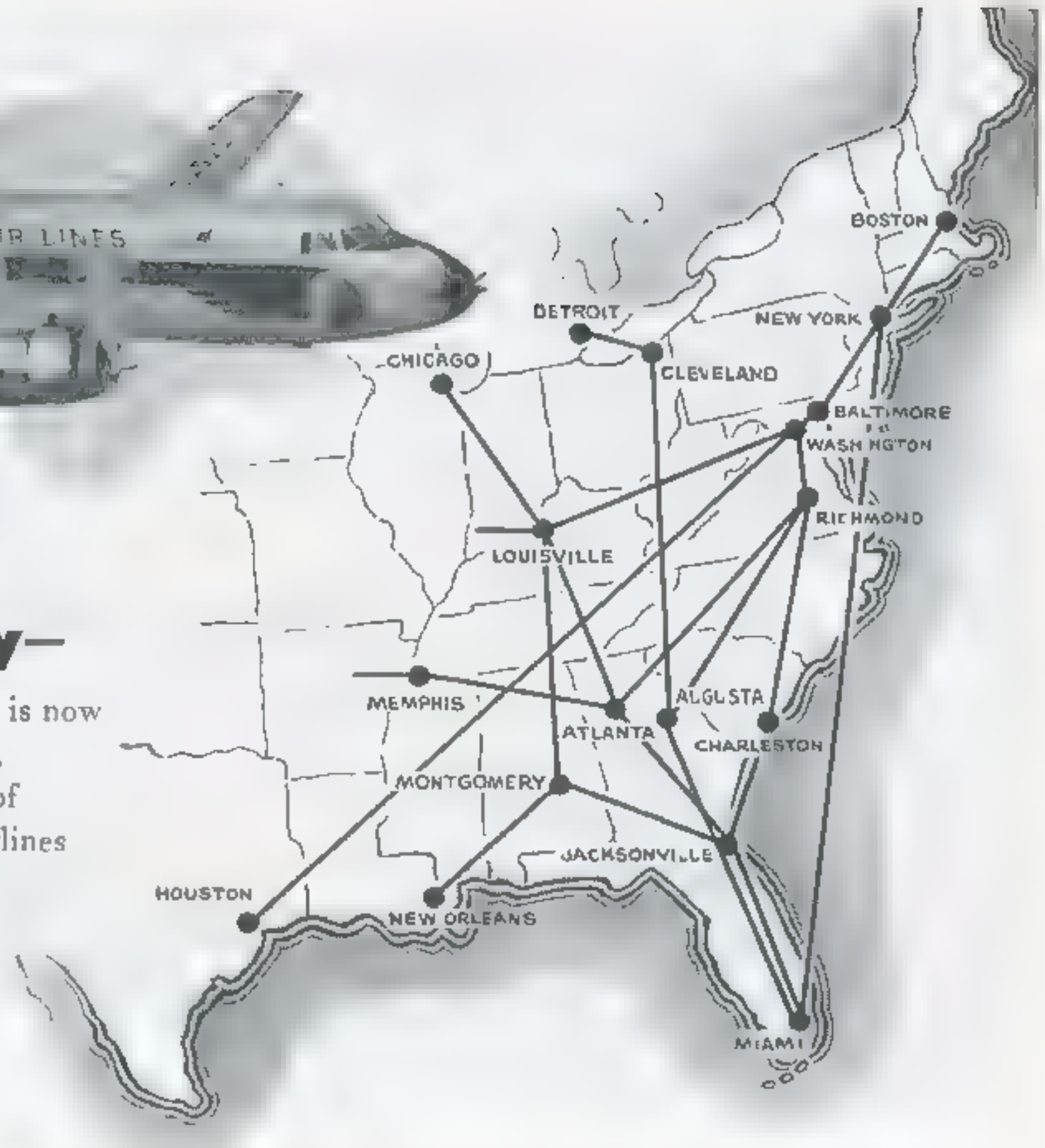
Automatic Fire Sprinklers ● Steam Heat ● Elevator ● Cocktail Lounge.

Open June to late September under Marshall House management.

Edward W. Marshall, President
Robert C. Trier, Jr., Manager

The Emerson and Cottages
● YORK HARBOR, MAINE





Newest in the Sky—

The new Martin Airliner (4-0-4) is now flying . . . soon to span America, north, south, east and west, along the routes of Eastern Air Lines and Trans World Airlines Drawing closer the cities of these two great carriers with time-gaining speed . . . pleasing an ever larger segment of the American public with the comfort of pressurized, air-conditioned flight.

The new Martin Airliner is designed to exceed today's more demanding requirements of airline operation and dependability . . . to keep pace with future developments . . . to fill the broad, long-term needs of commercial and military transport.

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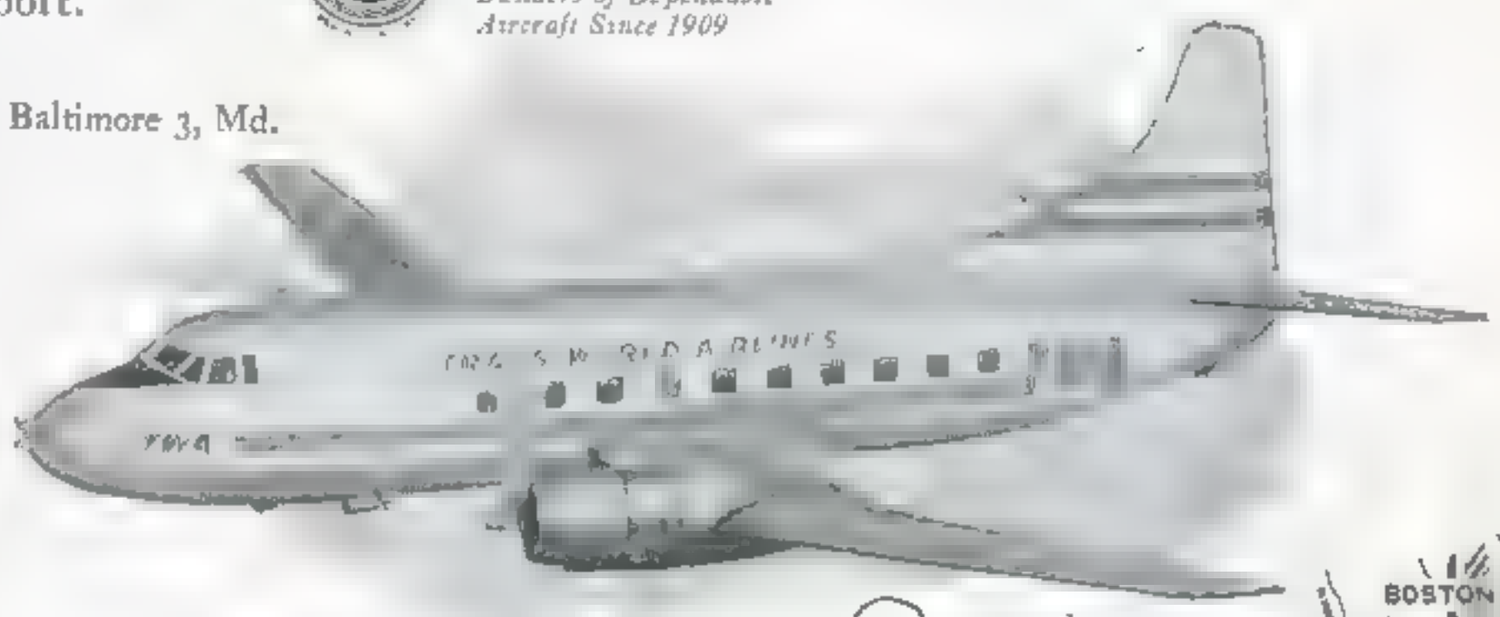
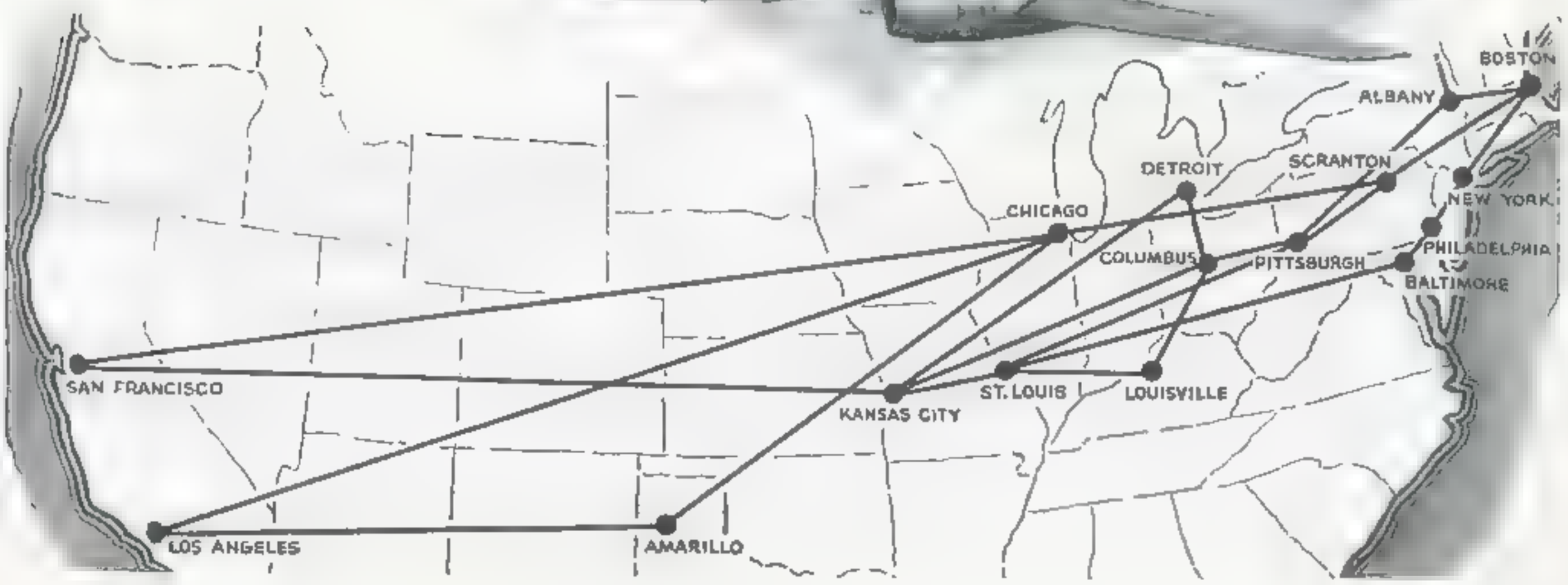
Builders of Dependable Aircraft Since 1909

The Glenn L. Martin Company, Baltimore 3, Md.





Finishing School for

GUIDED MISSILES

The Air Force Missile Test Center, used by all our military services as a long-range proving ground, stretches thousands of miles from Florida, out over the Bahamas, into the South Atlantic.

A pilotless bomber roars away from its launching stand, picks up speed, zooms into the blue. Setting its course for a far-off target in the ocean, it rockets over a chain of tiny islands where men and machines check its flight, its behavior, the operation of its guidance and control systems. It's a vital part of our air power of the future—aeronautical research and development laying the foundation for continued U. S. air supremacy!

Operated by the USAF's Air Research and Development Command, the Missile Test Center is geared up to test the wide variety of missiles, rockets and pilotless aircraft vital to modern air power. It reached its full stature with the recent completion of down range observation stations. And the dramatic B-61 pilotless bomber, the Matador, designed and produced by Martin as part of its diversified missiles program, was the first to use the completed range. The Glenn L. Martin Company, Baltimore 3, Maryland.

Martin AIRCRAFT

Builders of Dependable Aircraft Since 1909

Illustration is artist's conception of Air Force B-61 Matador pilotless bomber.

DEVELOPERS AND MANUFACTURERS OF: Navy P5M-1 Marlin seaplanes • Air Force B-57A Canberra night intruder bombers • Air Force B-61 Matador pilotless bombers • Navy P4M-1 Mercator patrol planes • Navy KDM-1 Plover target drones • Navy Viking high-altitude research rockets • Air Force XB-51 developmental tactical bomber • Martin airliners • Guided missiles • Electronic fire control & radar systems • **LEADERS IN** Building Air Power to Guard the Peace, Air Transport to Serve It

MODERN AERIAL WEAPONS *depend on electronic experts' little black boxes —circuits, tubes and gadgets that help man overcome his physical limitations in his constant conquest of the Air.*

They're putting wings on little black boxes

Many of our new winged weapons are pilotless. But even in today's piloted aircraft, man can't see far enough, can't move fast enough, can't live unaided at the temperatures and pressures he must endure. He needs the assistance of mechanical and electronic senses, muscles and nerves. That's why today's aerial weapons engineering demands a teaming of specialists in skills unheard of a decade ago.

Here at Martin, we call it *systems engineering*. Airframe and power plant, electronic flight and navigational controls and military armament—all are represented on a Martin engineering team that is designing aircraft as integrated airborne systems.

A Navy Viking high-altitude research rocket, missiles and target drones soaring into the blue. An Air Force XB-51 jet-powered ground support bomber roaring down in a simulated strafing run. A Navy P5M-1 Marlin being readied for sub-hunting duty. A dependable Martin Airliner gaining precious time for vacationist and businessman. All these are products of Martin *systems engineering*—part of a new trend in aeronautical designing that is putting wings on little black boxes —to help man overcome his physical limitations—to help him guard the peace and enjoy it.

THE GLENN L. MARTIN CO.,
Baltimore 3, Maryland.

Martin
AIRCRAFT
Builders of Dependable Aircraft Since 1909

Developers and Manufacturers of: Navy P5M-1 Marlin seaplanes • Navy P4M-1 Mercator patrol planes • Navy KDM-1 Plover target drones • Navy Viking high-altitude research rockets • Air Force XB-51 experimental ground support bombers • Martin airliners • Guided missiles • Electronic fire control & radar systems • Precision testing instruments • **Leaders in** Building Air Power to Guard the Peace, Air Transport to Serve It.

Opportunities for ELECTRONICS ENGINEERS

The advance of electronic research and development, especially in the last five years, has been so rapid that a great demand for engineers and technicians has been created. This is especially true at the Martin Company . . . one of the country's leaders in airborne electronic research since before V-J Day . . . with such developments as control systems for guided missiles like the KDM-1 Plover target, the Viking high-altitude research rocket, fire control systems for turrets and much other advanced work still classified under military security.

Martin needs engineers with experience in research and development of radar, television, pulse and display circuits . . . , and in the electro-mechanical field, experienced engineers in armament, servo-mechanisms, electrical work, rocket propulsion and special weapons or systems design.

The Martin Company would like to have a resume of the background of anyone having experience in electronics or electronics. Such information should be sent to the Employment Manager, The Glenn L. Martin Company, Baltimore 3, Maryland.

Martin Ads Tell Air Power Story

Reaching millions of informed, alert American magazine readers, Martin advertisements like this highlight air power's important role in our country's preparedness program.

Survey after survey has demonstrated that their story-style appearance attracts an extremely high readership and a worthy audience for the facts on this vital question.

We've changed

300 M P H Convairliner, One of the fleet used by Western Air Lines.

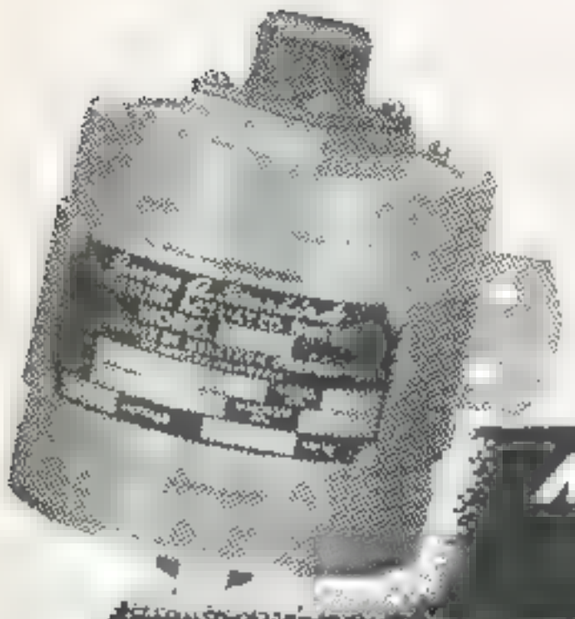
to MELETRON *pressure actuated* SWITCHES

When a major airline changed over to MELETRON pressure actuated switches recently, we asked why. The engineering manager said:

"We replaced the fuel, oil and water injection pressure warning switches on our Convairliners with Meletrons. Results have been excellent."

HARRISON W. HOLZAPFEL
Engineering Manager,
Western Air Lines

While there are other switches that meet specifications, the performance records of MELETRON switches stand unchallenged.



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Buffalo, New York

Southwest
Edmund C. Ashe
950 No. Highland Ave.,
Los Angeles 38, Calif.

► **Safety Factors**—Kerosene fuels have been regarded as safer than gasoline, because of the difference in flash point. At sea level, aviation gasoline vapors are present in explosive concentrations between —40 F. and —20 F., temperatures that occur while fueling takes place.

Kerosene, on the other hand, has explosive vapor concentrations between 95 and 170 F., usually, although not always, beyond the usual temperature range during fueling. On this basis alone, kerosene would appear safer.

However, once the airplane is in the air, the gasoline vapors are too rich for ignition, while kerosene vapors are in the explosive range, although the possibilities of ignition occuring during flight is remote.

In the case of a crash, there are so many known and unknown factors that Harvey considered it unwise to make any statements about the relative safety of various fuels.

► **Cost Important**—Harvey said that approximately ⅓ of the total flight operating cost of an airline was represented by the fuel

Tightening the specifications for fuels only serves to increase the manufacturing cost, and inevitably, the cost to the consumer. This illustrates, he said, that it is of the utmost importance to design commercial aircraft turbine engines that can use the low-cost fuels already available.

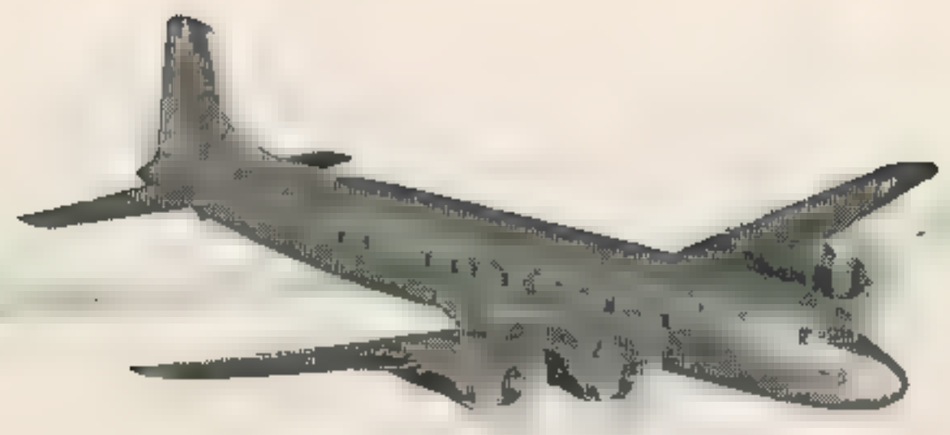
Any unnecessary limitations (color, abnormally low pour point) should be very carefully considered in the light of actual service requirements.

Harvey concluded that the most economical and efficient fuel for the commercial operators, which also meets their requirements of high flash point and low vapor pressure, is a kerosene-type fuel which will be universally available, without the unnecessary expense of extra manufacturing, transportation and storage facilities.

► **Engine Slants**—Viewpoint of an American engine manufacturer was presented in additional comments by E. A Droegemueller of Pratt & Whitney Aircraft. Droegemueller first considered six main qualities for a turbine fuel, including quick starting, efficient and stable combustion in a chamber of minimum size, no harmful residues and safety characteristics.

Fuels must be capable of being delivered to the engine under all operating conditions, he said. This characteristic seems like a very obvious one and yet to meet it, it is necessary to consider the filtering qualities of the fuel.

Ultimately it would seem desirable to eliminate all filters from the fuel system, but with the present state of development of pumps and other components, this can not be done. So,



Up there with the big names

SKYDROL

nonflammable-type hydraulic fluid

The day is not far distant when, as you see a new Douglas DC-6B carrying a big name in air transportation, you will observe an airplane using Skydrol, Monsanto's nonflammable-type hydraulic fluid. So widely have the superior qualities of Skydrol become recognized that every DC-6B now being constructed for domestic air lines and for many overseas operators will fly from the factory with the extra safety and economy that Skydrol delivers. A majority of DC-6's already in operation have been converted to Skydrol or are in the process of being converted. Many of these planes will use Skydrol in the cabin superchargers. Some will employ Skydrol throughout their hydraulic systems.

Skydrol brings greater safety to planes in the air and on the ground. It eliminates the possibility of fires due to hydraulic line failures either while ships are in flight or while being serviced, protecting both personnel and the multimillion-dollar investment. Skydrol's high lubricity brings *savings in maintenance* costs.

For more information on Skydrol, send for a copy of the booklet, "More Safety in the Air with Monsanto's Skydrol." MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, 1700 South Second Street, St. Louis 4, Missouri.

Monsanto Skydrol Offers These Advantages

SKYDROL is fire-resistant – exceeds the nonflammability requirements of Aeronautical Material Specification 3150.

SKYDROL is a proved superior lubricant. In most critical cases, lubricity more than double that of other hydraulic fluids.

SKYDROL is stable at required operating temperatures and pressures.

SKYDROL is noncorrosive to aircraft metals and alloys.

SKYDROL is nontoxic does not require special handling or protective clothing.

Skydrol Reg. U. S. Pat. Off.

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SKYDROL adds extra safety to far-reaching skyways of PAL

Trans-Pacific travelers who follow the "Route of the Orient Star" to Manila or Madrid . . . to Tokyo or Tel Aviv . . . soon will enjoy even greater safety. Philippine Air Lines has equipped cabin superchargers . . . in *all* its planes . . with Skydrol, Monsanto's fire-resistant-type hydraulic fluid. Skydrol will serve in superchargers and hydraulic systems of PAL's DC 6B's, which now are being built.

Skydrol means greater safety for planes in flight and while they are being serviced, thus protecting passengers, service personnel and the multimillion-dollar investment in aircraft. Skydrol also is an excellent lubricant. It lengthens the life of the hydraulic systems' working parts, bringing important savings on maintenance

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SKYDROL in *United Air Lines*
new Convair 340's

BRANIFF and UNITED AIR LINES offer CONVAIR 340's equipped with MONSANTO SKYDROL

Consolidated Vultee Aircraft Corporation is installing Monsanto Skydrol in the new 44-passenger luxury Liner 340's. being constructed for United Air Lines and Braniff International Airways. United's 340's will have Skydrol throughout entire supercharging and hydraulic systems. Result is that it will employ Skydrol in four more superdesigns.

Skydrol, the fire-resistant type hydraulic fluid, offers greater protection to planes in flight and on the ground. Skydrol is an excellent lubricant, lengthens the life of working parts in hydraulic systems, gives substantial savings in maintenance costs.

Specify Skydrol for new planes, change to Skydrol as ships you have in operation. For complete details, write MONSANTO CHEMICAL COMPANY Organic Chemicals Division, 1700 South Second Street, St. Louis 4, Missouri.

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SKYDROL in *Braniff International Airways'*
new Convairs—over 340's

BRANIFF Airliners safer than ever—with SKYDROL

Braniff International Airways always is alert for advancements that mean greater safety and comfort for its passengers. That is why the Braniff DC-6 Airliners, that ply the airways of the Americas at a five-mile-a-minute pace, have Monsanto Skydrol in their cabin superchargers.

Skydrol, Monsanto's fire-resistant-type hydraulic fluid, eliminates the possibility of fires due to hydraulic line failures while planes are in flight or when being serviced. Thus, Skydrol protects passengers, employes and the multimillion-dollar investment in aircraft. Skydrol, a long-lasting fluid of high lubricity, also brings important *savings in maintenance costs.*

If you are interested in a *safer* hydraulic fluid that is efficient under all normal flight conditions, investigate Monsanto Skydrol. Write for technical information and a copy of the booklet, "*More Safety in the Air with Monsanto Skydrol.*" MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, 1700 South Second Street, St. Louis 4, Missouri.

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SERVING INDUSTRY . . . WHICH SERVES MANKIND

SKYDROL brings new safety to Old World routes of LAI

Travel is safer than ever via Italian Air Lines, over routes radiating from Rome to points in Europe, Ireland, Africa and the Near East, because Monsanto Skydrol is used in the cabin superchargers of Linee Aeree Italiane ships.

Skydrol, Monsanto's fire-resistant-type hydraulic fluid, minimizes the possibility of fires due to hydraulic line failures in the air or on the ground. Skydrol, therefore, means *extra protection* for passengers, for air and ground crews and for aircraft costing millions. In addition, Skydrol provides important savings in maintenance costs. It is a long-lasting fluid having high lubricity that reduces wear on working parts.

For details on how Skydrol can bring you greater *safety* plus efficiency under all normal operation conditions, write for a copy of the booklet, "*More Safety in the Air with Monsanto Skydrol.*" MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, 1700 South Second Street, St. Louis 4, Missouri.

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CHEMICALS AND PLASTICS

SERVING INDUSTRY . . . WHICH SERVES MANKIND

United Air Lines photo.

United Air Lines' quarter-century of progress includes SKYDROL

Twenty-five years of aviation history has been written in the skies by United Air Lines, America's oldest air transport system. That quarter-century has seen United develop or accept scores of advancements in comfort and safety of passengers. Monsanto is proud to have United, in its silver-anniversary year, using Skydrol as the hydraulic fluid in the cabin superchargers of its "Mainliners."

Skydrol is Monsanto's fire-resistant-type hydraulic fluid. It gives ships extra safety and permits longer service between supercharger and hydraulic system overhauls. United's "Mainliners" have recorded more than 3000 hours of flying time without overhauling superchargers. That means *substantial economy* compared with the 250-hour limit for ordinary hydraulic fluids.

Airplanes have greater safety with Skydrol, both in the air and on the ground. The fluid eliminates the hazard of fires due to broken hydraulic lines, thus protecting passengers, personnel and the multimillion dollar investment in aircraft.

Skydrol now is used by every domestic air line flying DC-6's and in numerous ships plying overseas airways. Why not look into the advantages Skydrol offers you? For information and a copy of the Monsanto booklet, "*More Safety in the Air with Monsanto's Skydrol*," write MONSANTO CHEMICAL COMPANY, Organic Chemicals Division, 1700 South Second Street, St. Louis 4, Missouri.

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SERVING INDUSTRY . . . WHICH SERVES MANKIND

SHORTLINES

► **Air France**—New office at 1518 K St., N.W., Washington, D. C. was opened by the carrier on July 18. Premises include a 17x30-ft. theatre for showing travel films, a mezzanine and a basement.

► **Alaska Airlines**—Plans to begin CAB-certificated service between Portland, Ore., and Seattle, Washington, and Fairbanks, Alaska, on Aug. 12. One flight daily is scheduled at first, at rate of $90 from Seattle or $97 from Portland to either Anchorage or Fairbanks, with privilege of seven-day stopover in Fairbanks. Freight rates will be 17 cents per pound.

► **California Central Airlines**—June saw the carrier haul 13,294 passengers over 3,973,706 passenger miles. Load factor over Burbank-San Francisco segment was 83.7%; over Burbank-Inyokern 38%; and over San Francisco-San Diego 46.9%.

► **Capital Airlines**—Air freight shipments have increased by 300% since 1946, totaling 27,519,232 lb. for 7,006,691 ton miles from July 15, 1950 through same date this year. This mark was set despite the fact that two Capital all-cargo planes were turned over to the Korean airlift at the beginning of hostilities.

► **Colonial Airlines**—Summer tours has sharply increased passenger loads to and from Montreal, with a record 1,200 Canadian vacation plans sold in June, over 550 sold at mid-July, with a total expected for the latter month of 1705 The tours start at $99.85.

► **Frontier Airlines**—All of the carrier's 12 DC-3s will be converted to seat 24 passengers because of heavy traffic. Frontier's passenger traffic in May was up 77% over the same month last year, and June's was running about double June, 1950. Air freight has increased over 100%.

► **Los Angeles International Airport**—Figures for first five months of 1951 show that 656,601 passengers cleared through the airport, a 43.4% increase over the same period last year. Air cargo, including mail, freight and express, was up 36% to 16,000 tons.

► **Northwest Airlines**—Domestic load factor in June was 81.4%, a 17.4% increase over June, 1950. NWA Orient passenger revenues were up 44.9% over June last year. Total revenue passenger

NATIONAL AIR RACES

Detroit. Aug. 18-19

(Detroit-Wayne Major Airport)

AGAIN! America's premier aviation spectacle presents the greatest show of all time. Two days of the most colorful and elaborate program of flying you ever witnessed, featuring—

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Comfortable and restful accommodations for forty guests
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land, and adequate information facilities are but a few of the many aids to the visitor and tourist. Outside of the park area, at Bar Harbor and the various villages on the island, such as Seal Harbor, Northeast Harbor, Southwest Harbor, Somesville, Manset, Seawall, McKinley, Tremont, Bernard, West Tremont, Seal Cove, Center and Pretty Marsh are accommodations ranging from high-class summer hotels to rooming houses, cottages and restaurants.

Schoodic Point, a part of Acadia National Park although across the entrance to Frenchman's Bay, juts further into the open sea than any other point of mainland on the Atlantic Coast. From it a magnificent rock headland rises over 400 feet, commanding an unbroken view eastward to the Bay of Fundy and westward to the Mount Desert Mountains. Schoodic Point is reached from the delightful resort towns of Winter Harbor, Birch Harbor and Prospect Harbor on a scenic state and park road that follows the shoreline.

Ellsworth is the shire town and trading center for Hancock County and the railroad terminus for Bar Harbor and other Mount Desert Island resorts. From it excellent roads lead to all parts of the county. It is a city of gracious old homes and attractive modern business buildings, many of the latter built after the great fire in 1933 which wiped out the Main Street section. Union River flows through the center of the city and from the bridge a 60-foot falls is visible.

One of Ellsworth's show places open to the public is the famous Black Mansion, with priceless colonial an-

(Continued on Page 110)

THE ACADIAN LODGE Winter Harbor, Maine

On the rockbound coast overlooking Frenchman's Bay. Across from Bar Harbor, near Schoodic Point and Acadia Nat'l Park. A delightful informal hotel for discriminating people. Salt and fresh water fishing, fun and relaxation with indoor and outdoor amusements. Best of food excellently prepared. Specializing in memorable holidays and honeymoons.
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Memorable experiences await you in healthful, informal, varied activities in this uncrowded region featuring:

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—Fresh seafood, clambakes, lobster picnics 'where they catch 'em'
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You'll find here renewal of spirit and the Vacation of a lifetime!

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- One of the finest views on the Maine Coast
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- Good Maine food served [illegible] dining room
- Cabin cruiser trips and deep sea fishing; small sailboats and [illegible]
- Lobster picnics, salt water bathing, nature trails through [illegible] Cottages
- Congenial fellowship and opportunity for quiet and restful recreation.
- Reasonable rates. American Plan.

[illegible]

Booklet on request Open June through September

FALLS VIEW HOUSE

Situated at Goose Falls in Harborside, on Penobscot Bay

Home cooked food. Our own cabin cruiser for boat trips and picnics, free row boats. An ideal spot for rest or recreation

Descriptive booklet

Brainard L. Farnham Harborside, Maine

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A Friendly Place specializing for 62 years in happy vacations, offers

A SATISFYING VACATION for you and each member of your family

More than 100 acres of wooded land, shore line and fields. Safe bathing on our own private fresh and salt water beaches each within 500 yards of the main house.

Cleanliness, comfortable beds, and a reputation for quality meals and service.

Nine modern, attractively furnished American Plan cottages each complete with fireplace and bath for families of two to six persons.

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Rooms in main house, Annex or Shore Oaks with private bath or running water

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HOTEL AND COTTAGES. Located at the water's edge on a beautiful peninsula overlooking the Ocean and Linekin Bay. Comfortable rooms, all with continuous hot and cold water or private [illegible] the pier. Regular ferry service [illegible] Fishing. Tennis [illegible] to the Movies [illegible] Boothbay Region activities. Informal atmosphere

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Booklet on request

WARREN F. BARNES, mgr. Ocean Point, Maine

and fell on the same sport. Round Pond, sloping down to a small cove on Muscongus Bay and nearby Loud's island are picturesque for their fishing and boating [illegible]

North along the shore of Muscongus Bay are Medomak and Bremen, on the Medomak River, both of them fishing and resort villages, and Waldoboro, a commercial and small industry center. Deep-sea fishing and fly fishing for mackerel and pollock are popular with visitors and residents alike. Gamy striped bass and large tunas also are caught in nearby waters. On Hog Island, off Bremen is the Audubon Nature Camp, where people from all over the United States come to study at the Todd Wild Life Sanctuary. The National Audubon Society is here engaged in a program for the preservation of wild life.

North Whitefield, Coopers Mills and Somerville, in the northern part of the county, are inland villages of rural attractiveness, with several nearby lakes and ponds.

RELIEF FROM HAY FEVER

Maine is rapidly becoming known as a mecca for those suffering from hay fever.

Broadly speaking, places in the forested regions offer great relief and in many cases entire immunity is had, particularly in northern Oxford County and in the Rangeley region and the wooded country around Moosehead Lake. Probably anywhere up in the "Big Woods" region of Maine where grasses and pollen bearing weeds are not found can be confidently recommended.

Along the coast where the growth is principally coniferous Monhegan Island, Newagen, Squirrel Island, Mount Desert Island, Petit Manan and Eastport are recommended.

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[illegible] along beautiful evergreen forests. Free row [illegible] fishing, tennis, hiking, dancing, badminton, [illegible] Golf nearby. Best of food with fresh farm [illegible] $30 to $34 a week with meals. Accommodations [illegible] on early reservations request.

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[illegible] tive Maine Coast inn, superbly located with harbor or [illegible] on every side. The newly renovated lounges and [illegible]rn guest rooms create a cordial and restful atmosphere. [illegible] ing pool, tennis, golf, boating, fishing and [illegible] *folder*, which also describes Long [illegible] South Bristol, informal cottage colony under the same management

THE HOLLY INN Christmas Cove, Maine

KENNETH and ELIZABETH COVE.

MOODY'S CABINS and Dining room

WALDOBORO, MAINE

[illegible] is looking for you this summer. [illegible] ways welcome, and new faces are as [illegible] rning sun. Come to Maine this summer and [illegible] Cabins for a night or entire vacation [illegible] for 3, 4 and 6 people. [illegible] view of the surrounding country is sure to stay [illegible] and restful night or an entire [illegible] and Dining Room a short [illegible] ted menu. *Write for* [illegible]

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NEAREST HOTEL TO OGUNQUIT'S FAMED
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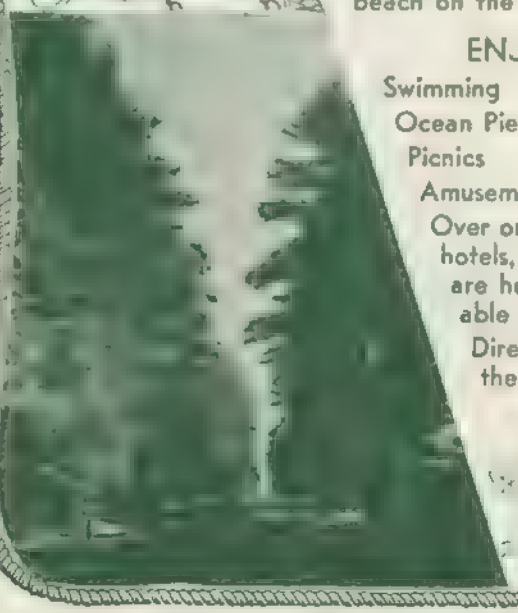

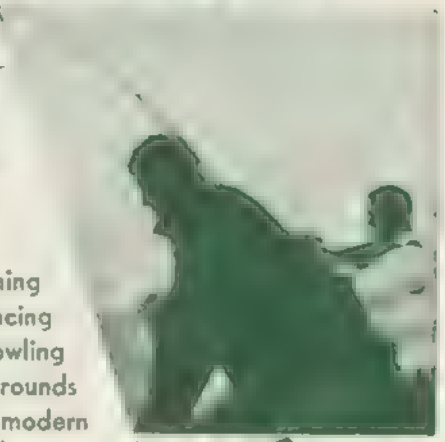

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The Lockheed Constellation provides dependable mass transportation for the armed services and commercial airlines. Its strenuous operational life under stress and strain demands top-quality structural materials such as OSTUCO Aircraft Tubing.

Easily machined, formed, and fabricated—OSTUCO Aircraft Tubing provides greatest strength with least possible weight in many aircraft applications.

For OSTUCO Tubing affords inherent strength-without-weight advantages while meeting all Army, Navy, and AMS specifications. This versatile tubing offers additional advantages, too. It is easily machined, formed, and fabricated to the most exacting requirements . . . its applications range from fuel lines to engine mounts.

OSTUCO made the first "Chrome-Moly" ever produced for aircraft use. Today it is one of the largest manufacturers—supplying 26 U. S. plane builders with OSTUCO Aircraft Tubing.

SEND FOR FREE HANDBOOK

A free copy of Handbook A-2—packed with facts for ready reference on OSTUCO Aircraft Tubing is available upon request. Also write for Airframe Stock List (revised bi-monthly). No obligation.

OSTUCO

THE OHIO SEAMLESS TUBE COMPANY

Manufacturers and Fabricators of Seamless and Electric Welded Steel Tubing

Plant and General Offices: SHELBY, OHIO

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According to Irish and Scottish folklore, banshee was a wailing female spirit. In modern usage, it refers to the F2H-2 Banshee—a sleek, spirited twin-jet carrier-based fighter manufactured by McDonnell Aircraft Corporation, St. Louis

Today's high-performance jet aircraft, like this F2H-2 ramming into the stratosphere, rely on structural materials which provide maximum strength with minimum weight.

That is one of the reasons for OSTUCO's success. For OSTUCO Aircraft Tubing—while meeting the most exacting Army, Navy and AMS specifications—provides inherent strength-without-we'ght advantages In addition, OSTUCO Tubing has specialized form'ng and machining qualities which make it the best mater'al available for fuel lines, engine mounts, landing gears, and other applications.

The first "Chrome-Moly" manufactured was an OSTUCO product and today OSTUCO Tubing, produced by one of the nation's largest suppliers of aircraft tubing, is used by 26 leading U. S. plane builders.

SEND FOR FREE HANDBOOK

Write today for free copy of Handbook A-2—packed with facts for ready reference on OSTUCO Aircraft Tubing. Airframe Stock List (revised bi-monthly) also available. No obligation.

SPIRIT

...WITH A NAVY SPIRIT

OSTUCO

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Manufacturers and Fabricators of Seamless and Electric Welded Steel Tubing

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about THE Raving Beauty WALKING DOLL

THE DOLL THAT WALKS ***NATURALLY*** WITHOUT A WIND-UP MECHANISM

JUST TAKE HER BY THE HAND
AND LIFT EACH FOOT AS YOU LIFT YOUR OWN
AND SHE WALKS RIGHT ALONG WITH YOU

HAS ***RAVON*** (DYNEL) HAIR THAT YOU CAN WASH, COMB AND CURL

20" TALL
MOVABLE HEAD
SLEEPING EYES
REAL EYE LASHES
MADE OF BUTERATE PLASTIC

ADDITIONAL COSTUMES AVAILABLE
ALL *California Originals* **BY** *Michele*

Watch for THE Raving Beauty WALKING DOLL TELEVISION SHOW IN ALL MAJOR CITIES

Dealer Aids: Counter Cards, Mats and Brochures.

LEON GRIVEL *President*

HARRY WATERS, *Sales Manager*

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Artisan 600 WEST 182nd STREET GARDENA, CALIFORNIA

Everybody's raving—

THIS IS JUST ONE OF OUR
DRAMATIC NEW 1951 LINE
OF RAVING BEAUTY WALKING DOLLS
TO MAKE THEIR
FIRST PERSONAL APPEARANCE
AT

THE TOY FAIR 712-714 HOTEL NEW YORKER

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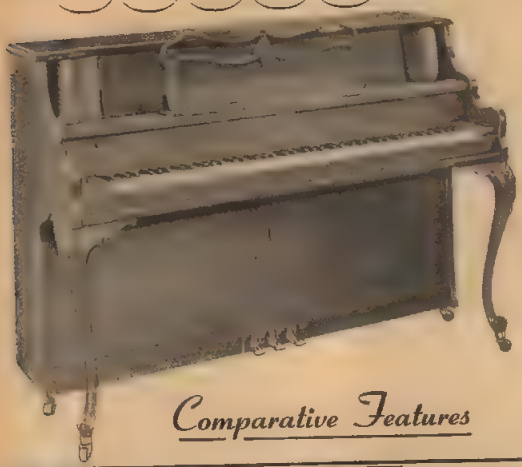
BRINKERHOFF

Spinet PIANOS

A Famous Piano
NAME SINCE 1901
America's Sweetheart
SPINET

- OVER 300,000 PIANOS HAVE BEEN SOLD TO AMERICAN HOMES
- 49 YEARS OF PIANO BUILDING EXPERIENCE



BRINKERHOFF STYLE "L" SPINET PIANO

Beautifully styled this magnificent spinet piano reflects the rich graceful lines of the most colorful period in the history of fine French furniture. Lovely to look at, lovely in tone, decidedly an adornment in any home. It is as exquisite in performance as it is pleasing to the eye. Full 88 note keyboard. Shipping weight 450 lbs., F.O.B. Chicago, Ill. Allow 2 to 3 weeks for delivery.

No. M5B-LM. Mahogany finish. List price 745.00. Dealer's each, net **510.00**

No. M5B-LW. Walnut finish. List price 785.00. Dealer's each, net **523.33**

No. M5B-LB. Blond finish. List price 795.00. Dealer's each, net **530.00**

MATCHING PIANO BENCH
Mahogany, Walnut or Blond Finish
(Specify Finish). List price 29.50.
No. M5BL-MB. Dealer's each net **19.67**

Comparative Features

Sturdy Back Construction
Non-warping Rock Maple laminated tuning pin plank. End grain tuning pin bushings. Rust-resisting grey iron plate. Fine spruce posts and ribs. Vertical grained quarter sawed spruce sounding board for permanent ultra-fine tone.

Direct Blow Piano Action—Pratt-Reid
Instantaneous tone response. Precision constructed for years of dependable service, and sweet mellow-rich tone. Developed by America's foremost scale designer.

New Slanted Keyboard
More hammer power. Better arm and hand position. Rounded non-splitting Waterfall Keys. Conforms to angle of playing arm and hand. Each individual note has a direct blow action for extra playing power.

Famous BRINKERHOFF STYLE "A" SPINET PIANO

- DISTINCTIVE AND ELEGANT
- VALUE PLUS STYLE

As in all Brinkerhoff spinet pianos, each individual note has a direct pull. The steel strings are micro-graduated, providing the utmost in tone grading. The entire string layout is placed to a scale drawing scientifically slanted to give greater string length. Bridges are notched so every string touches the very center of the bridge pins, guaranteeing precision tuning through the years. Definitely dignified in design and as practical in Schools as on the Stage and in Homes. Full 88 note keyboard. Shipping weight 450 lbs., F.O.B. Chicago, Ill. Allow 2 to 3 weeks for delivery.

No. M5B-AM. Mahogany finish. List price 745.00. Dealer's each, net **496.67**

No. M5B-AW. Walnut finish. List price 785.00. Dealer's each, net **510.00**

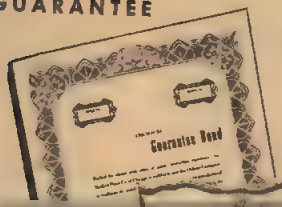
No. M5B-AB. Blond finish. List price 785.00. Dealer's each, net **523.33**

MATCHING PIANO BENCHES
Mahogany, Walnut or Blond Finish.
(Specify Finish). List price 27.50.
No. M5BA-MB. Dealer's each, net **18.33**

ITEMS ON THIS PAGE NOT INCLUDED IN OUR PREPAID FREIGHT OFFER.

- ALL PIANOS ARE 40" HIGH
- ALL PIANOS HAVE FULL 88 NOTE KEYBOARD

GUARANTEE



Fully Guaranteed
TO 10 YEARS
Every Brinkerhoff Piano is fully guaranteed. The guarantee policy covers every instrument fully. It is the most liberal piano guarantee we know of.

BRINKERHOFF

Spinet PIANOS

- FINEST TONE
- STURDY CONSTRUCTION
- FULLY GUARANTEED

- FULL 88 NOTE KEYBOARD
- EXQUISITE IN STYLE
- PRICED JUST RIGHT

BRINKERHOFF Style "W" SPINET PIANO

The simple elegant design enhances the loveliness of the most fastidious home. The full rich tone and brilliant playing action delight the most talented pianist and is definite encouragement to the budding Paderewski. Fine grain spruce backs, with quarter sawed pear and ribs shaped and glued to provide the vertical upright grained sounding board with proper crown for finest tone. Full 88 note keyboard Just the piano for home or studio use. Shipping weight 450 lbs.. F.O.B. Chicago, Ill. Allow 2 to 3 weeks for delivery

No. M5B-WM. Mahogany Finish. List Price 745.00. Dealer's each, net. **496.67**

No. M5B-WW. Walnut Finish. List Price 765.00 Dealer's each, net.. . . . . **510.00**

No. M5B-WB. Blond finish. List Price 785.00. Dealer's each, net.. . . . . **523.33**

MATCHING PIANO BENCH
Mahogany, Walnut or Blond Finish.
(Specify Finish) List Price 27.50.

No. M5BW-MB. Dealer's each, net. **18.33**

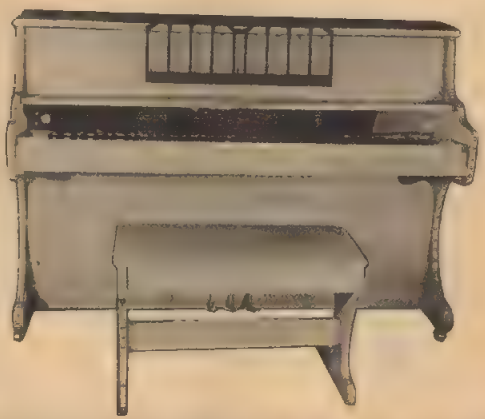
Sensational

NEW • COLORFUL • DURAN

STYLE "H"

SPINET PIANO

- **BEAUTIFUL MIRROR** *INSTEAD OF FALL BOARD*



Priced low, great for the home, night clubs, rumpus rooms, private clubs, and a thousand and one places where a strikingly modern high quality spinet is desired. Superfine playing action and tone The beautiful Duran case comes in a wide variety of striking colors and grained tones blues, yellows, greens reds, ivory, walnut, mahogany and blond Specify color. The beautiful, colorful spinet piano is 40 inches high and has a full 88 note keyboard. An attractive matching bench is included shipping weight 450 lbs , F.O.B., Chicago, Ill. Allow 2 to 3 weeks for delivery List price 555.00 No. M5BH. Dealer's each,, net.. . . . . **390.00**

Items On This Page Not Included In Our Prepaid Freight Offer

ORDER ITEMS ON THIS PAGE FROM
WHOLESALE PHOTO SUPPLY CO.
42 W. GERMAK ROAD, CHICAGO 16, ILLINOIS
SEE PAGE 221 FOR ORDER BLANK

BUSCH PRECISION MADE PRESS CAMERAS

BUSCH 2¼ x 3¼ PRESSMAN

BUSCH 2¼x3¼ PRESSMAN

MODEL "C." Precision made Press Camera, sturdy all metal construction Many new features have been incorporated. Has a greater range of photographic expression. Busch Model C 2¼x3¼ camera with Kalart Range Finder and Optical Vue-Finder installed Equipped with Wollensak F4.5 101mm coated Raptar lens in Rapax synchro shutter with BC Flashing Unit with synchhronizer, mounting bracket and 6" reflector, cord, clamp and battery Retail 237.79

No. 1CC23K. Dealer's, each **155.81**

No. 1CC23NF. Same as above, less B. C. Flashing Unit Retail 204.89 Dealer's, each 139.54

NOTE THESE FEATURES

HAND STRAP

adjustable at both ends. You can do it yourself with any coin, and have a "custom built" hand strap to fit your individual requirements and comfort

CHANGE LENSES

in one second. It can be done with the new, efficient BUSCH lens mount that holds lens securely when in use, but permits instantaneous change.

INFINITY STOPS

can be flipped back for bypassing. No lifting or pulling of bellows. And you can mount as many infinity stops on the focusing track to match your lenses.

BUSCH MODEL "C." ACCESSORIES

BUSCH 2¼ x 3¼ film pack adapter. Retail 7.48.
No. 7CBFPA23. Dealer's, each 5.31. Less 2% net 5.20

BUSCH 2¼ x 3¼ Professional saddle leather case Retail 36.50
No. 6CBC23. Dealer's, each 21.90. Less 2% net 21.46

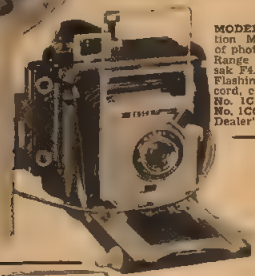
FIDELITY 2¼ x 3¼ cut film holder Retail 4.14.
No. 7CFCFH23. Dealer's, each 2.81. Less 2% net 2.85

BUSCH PRESS CAMERAS

BUSCH MODEL C 2¼x3¼ PRECISION PRESSMAN COMPLETE WITH NEW BUSCH MODEL S CAM COUPLED RANGEFINDER, AS ILLUSTRATED. Tapered double extension bellows gives maximum image of 1 to 1 when fully extended Machined die castings Ground glass focusing, Rising, shifting, dropping, and tilting lensboard Chrome finished Complete with f 4.5 Wollensak 101mm Raptar lens and Rapax flash synchronized shutter (speeds to 1/400 of a second) and optical vue-finder Retail 204.89.

No. 1CC23BRF. Dealer's, each **139.54**

No. 1CC23FU. Same as above except with B.C. Flashing unit with synchronizer mounting bracket and 6" reflector, cord, clamp and battery. Retail 237.79.
Dealer's, each 155.81



FLASH RESULTS FAR BEYOND THE CAPABILITIES OF CONVENTIONAL UNITS

CHECK THESE FEATURES

- ★**Wonderful economy.** Uses only one small battery in B-C circuit. Battery has far longer life (thousands of shots without a change) and spares fit any pocket
- ★**Fits all cameras.** One "B-C" Synchronizer serves all your camera needs
- ★**Uniform results.** Never a variance in light peaks to affect synchronization Perfect for color photography
- ★**Perfect synchronization.** Under all weather conditions with solenoid or "synchro" shutter
- ★**Tremendous store of power.** Capacitor reacts with terrific force, permits operation of a solenoid on even the swiftest of shutters

Busch B-C SYNCHRONIZER

NOW!

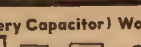
AMAZING POWER AT YOUR FINGERTIPS

Flash photography reaches maturity with the new Busch B-C Synchronizer For the first time, you can enjoy the many advantages of a capacitor type circuit, with its tremendous reserves of power, dependability and economy Uniform results every time, fire one bulb after another with perfect synchronization One Busch "B-C" unit serves all your camera needs, operates perfectly with solenoids or shutters having built-in synchronization Eliminates need for extra batteries and heavy extension tubing when firing multiple extensions. As many as seven bulbs in series on 100 feet of cord have been fired successfully in conjunction with a solenoid Colors sparkle, black and white shots are sharp and clear Extra light weight, too and gleaming sleek beauty Complete with 6" Dynar Reflector and mounting clamp— B" Battery Retail 27.70

No. 1C BC Dealer's each **18.38**

FULLY GUARANTEED

How the B-C (Battery Capacitor) Works



The modern Busch B-C stores energy in a capacitor between shots. Even if battery is run down, or weather is very cold, it takes just a few seconds to build full power reserve.

In conventional flash guns, battery is drained of charge when flashbulb is fired. Due to high internal resistance of battery, synchronization is affected when batteries are weak or bulbs are fired in multiple.

FULLY GUARANTEED

BUSCH B-C FLASH ACCESSORIES

"B-C" Dynar 7" Reflector. Standard screw base bulbs Retail 8.11
No. 1C-X5034. Dealer's, each 5.38

"B-C" Dynar Focusing Reflector. Bayonet base bulbs Retail 8.34
No. 1C-X5037. Dealer's, each 5.44

"B-C" Twin Prong 15" Shutter Cord. Retail 1.50
No. 1C-X4400. Dealer's, each .98

"B-C" Solenoid Cord. Retail 1.50.
No. 1C-X4401 Dealer's, each .98

"B-C" Bayonet Cord. Retail 2.30
No 1C-X4402. Dealer's, each 1.50

WHOLESALE PHOTO SUPPLY CO.
42 W. CERMAK ROAD, CHICAGO 16, ILLINOIS

SEE PAGE 221 FOR OTHER ITEMS

BUSCH 4x5 PRESS CAMERAS

MODEL "D."

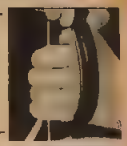
BUSCH 4x5 PRESS CAMERA
WITH THE BUSCH "B-C" FLASH UNIT

A fine precision made Press Camera of all metal construction. Amateurs and professionals acclaim this as the finest 4x5 Press Camera Fully 1 inch smaller than any American 4x5 Press Camera which makes it easier to handle Has a host of new features, shown at right Dealers everywhere report a tremendous increase in store sales from the moment they display the new BUSCH 4x5 Press Camera with the new "B-C" flashing unit This camera has tre. sales appeal with a price that will bring on volume sales This camera is equipped with the Busch scope optical viewfinder Kalart rangefinder installed, with Wallensak F/4.7 135mm Coated Raptar lens in a No 2 Raptar full synchro shutter The "B C" flash unit comes complete with synchronizer mounting bracket, and 8" reflector cord clamp and battery Buy now and increase your sales Retail 253.05.

No. 1CDK45-BC. Dealer's, each **169.85**

No. 1CDK45. Same as above, less flashing unit Retail 230.14. Dealer's, each **154.40**

HAND STRAP
adjustable at both ends. You can do it yourself with any coin, and have a "custom built" hand strap to fit your individual requirements and comfort.



INFINITY STOPS
can be flipped back for by-passing. No fitting or pulling of bellows. And you can mount as many infinity stops on the focusing track to match your

CHANGE LENSES
in one second! It can be done with the new, efficient BUSCH Lens mount that holds lens securely when not in use, but permits instantaneous change

FOCUSING SCALE
Built on Slide-Rule principles. Magnifying glass enables you to make footage quickly, accurately without squinting, without eye strain.

MODEL "D."

BUSCH 4x5 PRESS CAMERA

Precision made Press Camera, sturdy all metal construction. Many new features have been incorporated. Has a greater range of photographic expression and when put on display, it sells itself All Busch Cameras are nationally advertised, creating a big demand among amateurs and professionals. This camera is equipped with the Busch Scope optical Vue-finder and Busch ranger finder installed. With Wallensak F/4.7 135mm coated Raptar lens in a Rapex synchro shutter. This is a fine precision made camera with all the features of the higher priced press cameras. Check the features at the right and see why more people choose Busch over other press cameras Display the Busch Press Camera in your store window, and watch your sales volume rise Retail 230.14.

No. 1CDB45. Dealer's, each **154.40**

No. 1CBC. Same as above, with Busch "B-C" Flashing unit complete. Retail 253.05 Dealer's, each **169.85**

IT'S BUSCH FOR BETTER PICTURES

BUSCH B·C·
FLASHING UNIT FOR ALL CAMERAS

Wonderful Economy Uses only one small battery in B-C circuit Battery will last far longer Life. Fits all cameras One B-C synchronizer serves all your camera needs Uniform results Never a variance in light peaks to affect synchronization

Lightweight: Easier to carry and use Synronizer case is fully insulated from circuit, short proof. You get the picture everytime Capacitor, not the battery fires the bulb. Tremendous store of power permits operation of a solenoid on even the stiffest shutters

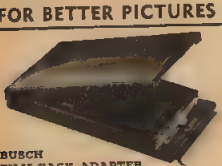
Now you can be sure of uniform results every time, fire one bulb after another with perfect synchronization. One Busch "B-C" unit serves all your camera needs. Moreover the Busch "B C" eliminates the need for extra batteries and heavy extension tubing when firing multiple extensions. As many as seven bulbs in series on 100 feet of cord have been fired successfully in conjunction with a solenoid You'll always be certain of your picture with precision-built Busch "B-C" Colors sparkle, black and white shots are sharp and clear You'll appreciate its extra light weight, too, and be proud of its gleaming, sleek beauty Includes B-C Battery Case, 6 in reflector and mounting clamp Life of the batteries, in many instances is for years Can fire five extensions in series Specify if for folding, reflex or Graphic camera. OPERATES WITH SYNCHRONIZED FLASH SHUTTERS ONLY. Cords for bayonet, twin post, etc., connectors, and Special "B" Battery. Specify type Retail 22.90, including tax.

No. 1C 17D. Dealer's, each (tax included) **16.27**

New! Different!

Operates with Synchronized Flash Shutters Only

FULLY GUARANTEED!



BUSCH FILM PACK ADAPTER

The new Busch film pack adapter is an all metal, easily loaded unit. Film spacing conforms to recognized standards Finished in black and highlight-chrome trim, it contains a double light trap which is the result of years of experience. The 4x6 adapter is equipped with an insert to accommodate 3¼x4¼ film pack Retail 9 65

No. 7CB 45A. Dealer's, each **6.30**

MODEL "D." ACCESSORIES

Busch, 4x5 Professional saddle leather case Retail 42.50.
No. 6CBC45. Dealer's, each **25.50**

Lisco, 4x5 Cut Film Holder. Retail 4.25.
No. 7CLCFH45. Dealer's, each **2.98**

BUSCH 4x5 MODEL "D" ACCESSORIES

Wollensak, F/4.5 162mm Coated Raptar Telephoto lens in Rapax standard shutter. Retail 84.06.
No. 8CW56-ST9. Dealer's, each **56.96**

Wollensak. F/4.5 162mm Coated Raptar lens in Rapax synchro shutter. Retail 104.58
No. 8CW56-SY3. Dealer's, each **70.28**

Wollensak, F/5.6 10" Coated Raptar lens in Rapax No 3 standard shutter Retail 157.90
No. 8CW56 ST10. Dealer's each **108.55**

Wollensak, F/5.6 10" Coated Raptar lens in Rapax No 3 synchro shutter Retail 178.40
No. 8CW56 SY10. Dealer's, ea. **121.86**

Wollensak, F/6.8 90mm Coated Raptar lens in Rapax No. 1 standard shutter. Retail 73.83
No. 8CW68-ST. Dealer's, each **50.28**

Wollensak, F6.8 90mm Coated Raptar lens in Rapax No 1 synchro shutter Retail 94.58
No. 8CW68-SY. Dealer's, each **63.87**

Before You Buy Any *big* Outboard

Drive the *new* KIEKHAEFER **MERCURY**

for family fun in '51 get a Mercury .... Choose from

COMET 3.5 H.P SINGLE

Fast, right and smooth Full Jeweled* throughout Safety Tilt Handle Dual Purpose Drive for full speedless aboard Low Up Cast One Piece Gear Housing assures Trouble free operation No gaskets to leak Comfort length steering, full reverse.

"SUPER 5" 5 H.P ALTERNATE TWIN

The fisherman's prize catch ** The sure as well as all sport, yet provides a run about at 20 m.p.h. plus Multiple Disc Propeller Clutch eliminates shear pin, protects propeller Simple, sturdy Magna-Pu Automatic Rewind Starter.

ROCKET 7.5 H.P ALTERNATE TWIN

Favored where larger fishing boats are used Safety Tank Handle for easy filling and attachment to boat Comfort engineered steering handle Variable Volume Rotary Water Pump with low and water intake adequate to cool at any speed and in shallow water — non clogging!

ROCKET HURRICANE

Top performance on light outboard cruisers work boats fast sportsboats. New Lower Carburetor for maximum efficiency at high or low speeds Hi Rev Micro Mounted Connecting Rods of drop forged chrome nickel molybdenum steel, heat treated, precision ground and micro-honed.

See for yourself . . . you don't have to buy BIG ENGINE WEIGHT to get BIG ENGINE PERFORMANCE!

PERFORMANCE! Speeds up to 30 m.p.h.—plus. A mule for rugging large boats, work boats and cruisers. Fine for extra loads. Throttle down to a smooth purring troll for fishing.

WEIGHT. ONLY 70 POUNDS! (And 70 pounds is *all* you carry—no extra gas tank required.) No other outboard gives you so much performance per pound.

NEW! Hi-Thrust! lower unit geared for power efficiency with heavy duty Ultramet one piece gear case for perfect, positive alignment of shafts, bearings and gears.

NEW! Synchronized spark and throttle with Twist Grip control and longer steering handle.

PROVED POWER HEAD! — the same basic power head as Super 10. Thirty-six months test has consistently outperformed engines of two and three times its rated horsepower. A power plant proved in use by thousands of Mercury owners in hundreds of thousands of boat miles.

FULL JEWELED POWER* only MERCURY has it. Plus all the other famous Mercury features that make every Mercury great.

SHIFT! Forward, Neutral and Reverse with a gear shift that's *right*. Simple, positive action, with the shift lever up front where you can see it. No fumbling for position. No linkage to wear and go out of adjustment.

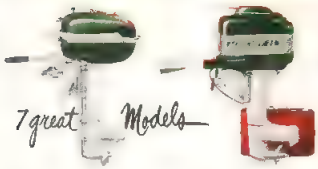
*Ball and Roller Bearings Throughout

Pick of the pilots — Mercury — High powered outboarding

For complete details on the Mercury Line, including the NEW CRUISER write for Free 36-page [illegible] Just fill in your name and address and mail to Mercury Outboard Dept. L-66, Fond du Lac, Wis.

Features of Mercury Motors are protected by issued or pending patents.

"CRUISER"



"SUPER 10" HURRICANE
High Speed powerhouse, with extra speed and power. Mercury's exclusive Drop Forged Unbreakable Aluminum Clamp and Swivel Brackets, heat treated to the strength of steel. Hi Rev Micro Mounted Forged Steel Connecting Rods for Safe operation at higher than normal R.P.M.'s

THUNDERBOLT 25 H.P.
The first and only 4-in-line alternate firing outboard. Still years ahead of any big outboard ever built—proved in rugged competition on more waters of over the world. Powers heavy cruisers at 25 m.p.h., runabouts at better than 42 m.p.h.—yet trolls like a fishing motor.

PETER PUPPET
World's Largest Manufacturer of Marionettes

ONE BUYER TELLS ANOTHER...

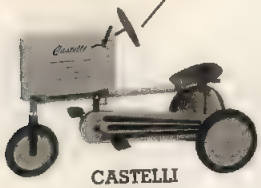
CAMRAY
Finest Quality Wood Items

SUPERB
Quality — Style — Price

Levy & Fryer

ROOM 203

National Sales Representatives
for
Nationally Known Lines



CASTELLI
Durable, All-Metal Toys

200 FIFTH AVE.
N. Y. 10, N. Y.
WAtkins 4-4080

YOUR SALES will soar to new HEIGHTS with these truly SUPERB DOLLS

A Complete, Quality DOLL LINE popularly priced!

$1.98 to $14.98 RETAIL

SUPERB TOY CORPORATION

41 Varick Ave., Bklyn., N. Y.

CHARLES WINKLER, Pres.

See them NOW — and all year 'round — at:

PERMANENT SHOWROOM
ROOM 203 200 FIFTH AVENUE
NEW YORK 10, N.Y.

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Nation!

She Sings! She Laughs!

She Talks! She Prays!

She's **NOMA**

THE SENSATIONAL

ELECTRONIC TALKING DOLL

BY **EFFANBEE**

The biggest doll promotion in the history of the toy industry has produced a tremendous demand! Everybody wants a NOMA electronic talking doll! It's the talk of the country!

NOT A WIND-UP! NOT A PLUG-IN!

NOT TO BE CONFUSED WITH ANY OTHER TALKING DOLL!

Just press the magic button and hear the *only Electronic Doll talk* for herself.

NOMA operates on safe, harmless, easily-replaced flashlight batteries. Plays and replays thousands and thousands of times

THE BIG AD PUSH FOR NOMA CONTINUES THROUGHOUT 1951!

LIFE **Look**

CHILDREN'S **ACTIVITIES** **PARENTS'**

Metro Group

MAT SERVICE:
Prepared mats are available to all dealers on request.

NOMA sweeps the

WE'RE SWAMPED WITH ORDERS!

Although we have increased our production facilities over and over again—the demand for Noma is so great that we can accept only limited orders for the first quarter of 1951.

At no time in the industry has a doll become such an overnight success—a sweetheart that has captured the hearts of America.

NOMA, the electronic talking doll sensation, produced by *Effanbee*, the biggest name in dolls, made a hit with the buying public the minute she was introduced.

We still haven't been able to keep up with the demand. So we're projecting our thinking through 1951 now. We're stepping up production—we're stepping up promotion—we're stepping up the entire NOMA operation to see that you get every doll you can sell.

Think BIG about NOMA, because she's going to be the BIGGEST thing in your toy department this year!

NOMA will do wonders for your doll volume in 1951!
EFFANBEE Dolls
EFFANBEE DURABLE DOLLS
EFFANBEE ALSO PRODUCES THESE OTHER WORLD FAMOUS DOLLS!
BY-BEE: The original Wetting doll, bathes blows bubbles, eats through a straw, the almost human doll that is a big favorite everywhere
LI'L DARLIN': The perfect image of a new-born baby. Comes with a magic milk bottle
MOMMY'S BABY: So real so life-like. Beautifully molded plastic head. Latex skin body. True to life "mommy voice"
HONEY: There's a Honey doll for every occasion. Comes in selection of gay, colorful costume with appropriate hair-do's.
SWEETY PIE: Lovable, adorable—A perennial favorite with all little girls.

GASTON PRESENTS

Blondie and Dagwood

Now on . . . BLONDIE and DAGWOOD INTERCHANGEABLE BLOCKS!

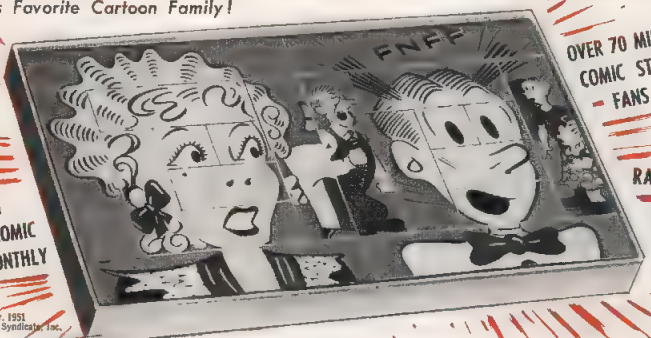
America's Favorite Cartoon Family!

MOVIES

A MILLION BLONDIE COMIC BOOKS MONTHLY

OVER 70 MILLION COMIC STRIP FANS

RADIO



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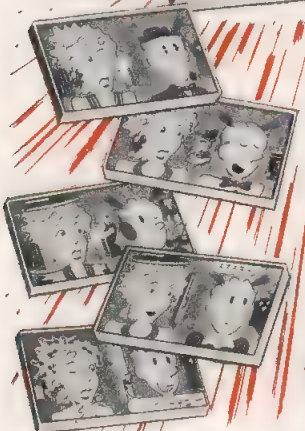
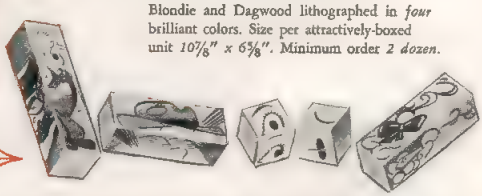


LOVABLE! LAUGHABLE!

NOW CHANGEABLE!

Changeable Charlie! Bozo! Woody!
Now, Blondie and Dagwood at their ever popular, heart-warming best on Gaston interchangeable blocks!
Mr. Dithers, Woodley, Daisey, the pups and entire Bumstead family all add to the fun.
Put Blondie's head on Dagwood's shoulders . . .
Change their expressions . . . Change their clothes . . .
Simply by rotating blocks! All the features of the already successful Gaston line plus sales potential provided only by America's favorite cartoon family!

Blondie and Dagwood lithographed in *four* brilliant colors. Size per attractively-boxed unit *10⅞" x 6⅝".* Minimum order *2 dozen.*

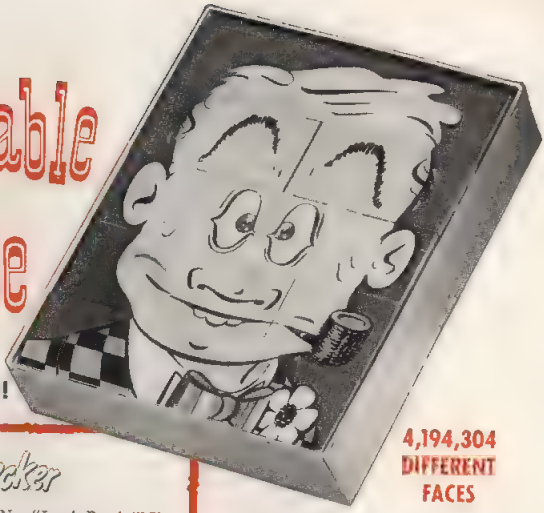


Change Picture By Rotating Blocks!

Over a Trillion Combinations Possible!

GASTON MANUFACTURING CO., 234 WEST SECOND STREET, CINCINNATI 2, OHIO

Changeable Charlie



EVERY DEALER'S BASIC PROFIT ITEM!

Woody Woodpecker

Look! New "Juggle Puzzle!" Six puzzles to box; six pieces per puzzle! Features WOODY WOODPECKER, OSWALD RABBIT, LITTLE ROQUEFORT, WALLY WALRUS, ANDY and MIRANDA PANDA! Beautifully lithographed; laminated on heavy cardboard. Over 46,656 combinations!

4,194,304 DIFFERENT FACES

As long as children are curious, they'll go for Charlie's 4,194,304 different faces! He glares, smiles, wears a straw hat, goes bald! Lithographed in six brilliant colors. Size per attractively-boxed unit, 5¼" x 6¾". Minimum order, two dozen. Packed in master shipping carton, weight approx. 23 lbs.

BOZO THE CAPITOL CLOWN *

The kiddies' favorite . . . backed by a promotional powerhouse of records, books, TV! BOZO grins, laughs, cries, blows bubbles, puts hands up in amazement. Over a million changes possible with the ten, full-color lithographed wood blocks. Size per attractively boxed unit, 7" x 7". Minimum order, two dozen. Packed in master shipping carton, weight approx. 27 lbs.

© CAPITOL RECORDS INC.

Write your factory representative

SOUTHWEST . . Hughes and Stocks, Room 1064 Santa Fe Bldg., Dallas, Texas

MIDWEST
MR. HUGH D. KENNEY
1443 Merchandise Mart
Chicago, Illinois

EAST
JOSEPH J. BARNETT, Inc.
200 Fifth Avenue
New York, New York

SOUTH
WM. A. YARBOROUGH
Atlanta Toy Mart
84 Tenth St., N.W.
Atlanta, Georgia

WEST
MR. KEN ROBERTS
Western Merchandise Mart
1355 Market Street
San Francisco, California

GASTON MANUFACTURING CO. 234 W. SECOND ST., CINCINNATI 2, OHIO

AMERICAN TOYS

horsman

good will *is the*

powerful influence

that makes customers eager

to return to your store

Since 1878 horsman has helped to build good will for many of the finest merchandising organizations in the country.

america's best-known and best-loved dolls

america's newest and most life-like dolls

the cutest thing

we've seen . . .

you must see **sleepy**

. . . we predict

that she will be

the talk of the Toy Fair

horsman dolls, inc.—200 Fifth Ave., N.Y. 10, *Factory:* Trenton, N. J.

dolls

WHAT'S Going on in Room 651?

200-5th Avenue

PLENTY!...

IRWIN IS SHOWING ITS SENSATIONAL

NEW 1951 LINE

with PLENTY of NEW HOT ITEMS

IRWIN

IRWIN CORPORATION

FITCHBURG, MASSACHUSETTS

NEW YORK SHOWROOM, 200 FIFTH AVENUE • Room 651

IRWIN

IRWIN Introduces... For the First Time Anywhere

TWEETY

The Singing Bird-in-Cage

TWEET

TWEET

TWEET

TWEET

TWEET

NOT $100

NOT $50

NOT $10

NOT $3

$?

One of the many Sensational
New Irwin Toy Presentations for
Bigger, Better Volume in 1951

Our Remarkable 1951 Plastic Tea Set Line has been expanded to include many striking innovations. See it before placing orders.

IRWIN

IRWIN CORPORATION

FITCHBURG, MASSACHUSETTS

NEW YORK SHOWROOM: 200 FIFTH AVENUE • Room 651

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IRWIN CORPORATION

FITCHBURG, MASSACHUSETTS

NEW YORK SHOWROOM: 200 FIFTH AVENUE • Room 651

IRWIN

This is IT!

Here it is—the all-time sensation in outboard motoring! A *super-powered* motor with the gentle manners of a "5". A smooth-running, trouble-free motor with a range of performance that covers the water front. A Gear Shift motor with all the maneuverability of Neutral-Forward-Reverse. A long-cruising motor with separate, plug-in Mile-Master Fuel Tank. A sleek middle-weight of only 85 pounds. Ideal for speed (over 30 m.p.h.!) Ideal for "big" waters —for outboard cruisers—for water sports—*and for fishin'!* It's a half-a-dozen motors in one! See it! Drive it! Ask your Johnson Dealer. Look for his name under "Outboard Motors" in your classified phone book.

1951 HANDY CHART *FREE!*

You're missing something if you don't get this and learn ALL about the new 1951 Sea-Horses which are setting a new trend in outboard motoring. Write us. It's ***FREE!***

JOHNSON MOTORS
2000 Pershing Road, Waukegan, Illinois
In Canada: Johnson Motors, Peterborough

THE NEW

JOHNSON Sea-Horse 25

25 HORSEPOWER!

...YET IT TROLLS!

ONLY 85 POUNDS!

AND ONLY $390.00

f. o. b. factory.
Prices subject to change without notice.

WITH GEAR SHIFT . . . SYNCHRO TWIST-GRIP SPEED CONTROL . . . SEPARATE, PLUG-IN MILE-MASTER FUEL TANK . . . AND MORE!

SEA-HORSE 25..25 H.P...85 LBS. ..$390*
Gear Shift Synchro Twist-Grip Speed Control
Mile Master Fuel Tank (6 gal.)

SEA-HORSE 10..10 H.P...58 LBS...$295*
Gear Shift and Mile Master Fuel Tank (6 gal.)

SEA-HORSE 5..5 H.P ..44 LBS. ..$187.50*
Neutral Clutch No Shear Pin.

SEA-HORSE 2½..2 5 H.P..31 LBS..$137.50*
World's lightest Alternate Firing Twin.

4 VERSATILE MOTORS FOR 1951

Here is everything you could want in outboard power—*and covered by just four motors!* Four brilliant Johnson perfected Alternate Firing Twins which range in size from the world's lightest to the world's most powerful.

*All prices quoted are f. o. b. factory. All prices are subject to change without notice. All horsepower ratings are OBC Certified brake horsepower ratings at 4000 r. p. m.

OBC

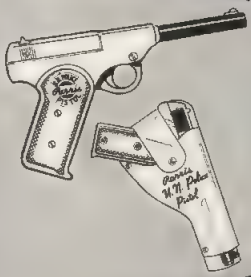
JOHNSON — AMERICA'S NO. 1 CHOICE FOR *DEPENDABILITY*

Parris TraineRifles for "SOLDIER BOYS"

SEE Them At TOY FAIR

ROOM 633 HOTEL NEW YORKER

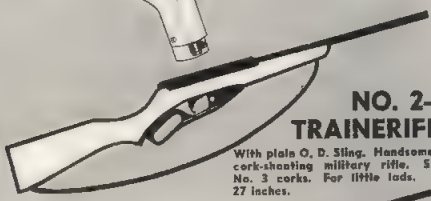
Visit our complete showing of Parris TraineRifles, U.N. Police Pistols as well as other specialties during the New York Toy Fair. Room 633, Hotel New Yorker.



NEW

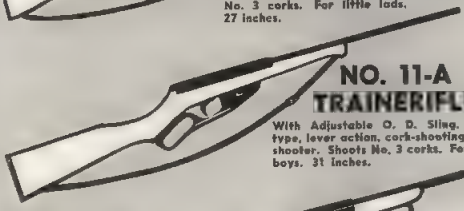
U. N. POLICE PISTOL NO. 7
WITH MILITARY HOLSTER

Beautiful plastic and metal, lever action cork pistol in handsome, authentic, leatherlike holster. Shoots No. 3 corks. 9 inches long.



NO. 2-A TRAINERIFLE, JR.

With plain O. D. Sling. Handsome, lever action, cork-shooting military rifle. Shoots No. 3 corks. For little lads. 27 inches.



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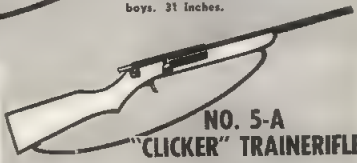
With Adjustable O. D. Sling. Finest type, lever action, cork-shooting, sharp-shooter. Shoots No. 3 corks. For larger boys. 31 inches.



NO. 5-A "CLICKER" TRAINERIFLE

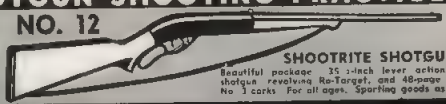
With O. D. Sling. Lifetime Click Trigger. Does not shoot corks. For tiny tots, 25 inches.

MILITARY TRAINING MANUAL

Packed with all Parris Traine Rifles. Complete official manual of arms and drill formations. For drill and training as well as just "playing soldier". Military models or cowboy specials. Young America must have his favorite weapon for real play

SHOTGUN SHOOTING PRACTICE IN THE HOME

NO. 12



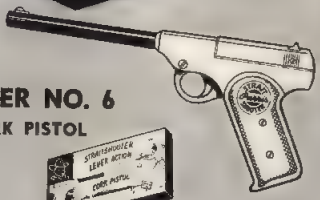
SHOOTRITE SHOTGUN PRACTICE KIT

Beautiful package 35 1-inch lever action, cork shooting practice shotgun revolving Re-Target, and 48-page official Shooting Manual No. 3 corks. For all ages. Sporting goods as well as toy departments.

PARRIS-DUNN CORP. World's Largest TraineRifles Mfrs. **CLARINDA, IOWA, U.S.A.**

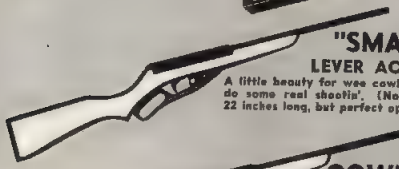
Parris Pla-Guns for COWBOYS

NEW COWBOY STRAITSHOOTER NO. 6 LEVER ACTION CORK PISTOL



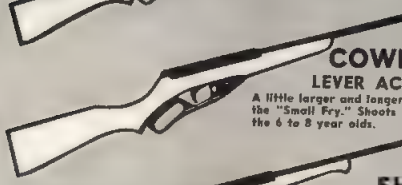
Same breach-breaking, cocking action as our No. 7. Resembles Colt pistol in appearance. 11 inches long. No. 3 corks. A "cow-poke" necessity.

NO. 4 "SMALL FRY" LEVER ACTION RIFLE



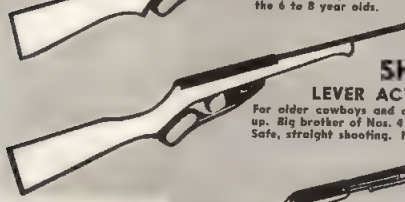
A little beauty for wee cowboys who want to do some real shootin'. (No. 3 corks.) Only 22 inches long, but perfect operating.

NO. 2 COWBOY, JR. LEVER ACTION RIFLE



A little larger and longer (27 inches) than the "Small Fry." Shoots No. 3 corks. For the 6 to 8 year olds.

NO. 11 SHERIFF'S LEVER ACTION RIFLE



For older cowboys and cowgirls, 9 years up. Big brother of Nos. 4 and 2, 31 inches. Safe, straight shooting. No. 3 corks.

COWBOYS' DELIGHT

Dress 'em up in their flashiest cowboy togs and lead 'em to the Parris Lever Action Rifle Counter and watch them grab the style and size that exactly fits their age and preference. It's just love at first sight!

NO. 1 DELUXE REPEATER CLICKER PLA-GUN

Nifty "pump gun" for little ones. Pump to set trigger. Snaps! — but does not shoot corks. 22 inches.

SEE Them At TOY FAIR

ROOM 633 HOTEL NEW YORKER

Don't miss seeing the hottest line of junior weapons and other specialties at the 1951 Toy Fair. In Room 633, Hotel New Yorker, see and shoot our Parris Lever Action Rifles, Cowboy and Soldier Boy models.

REAL PUTTING PRACTICE IN THE HOME

NO. 8 ROL-BACK and NO. 9 PUTT TRAINER

Rol-Back cups the ball and returns it to player. *Putt-Trainer*, 9-hole portable, "Bent-grass" texture felt "green" for complete putt-game. Hours of fun, exercise and real putting practice for novices or experts. Come to Room 633, New Yorker, and putt with us.

PARRIS-DUNN CORP. World's Largest Pla-Gun Mfrs. **CLARINDA, IOWA, U.S.A.**

Parris TraineRifles for "SOLDIER BOYS"

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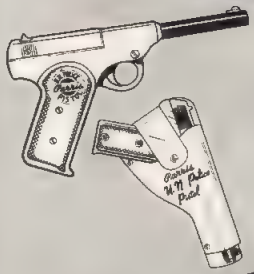

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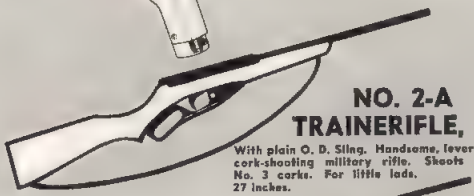

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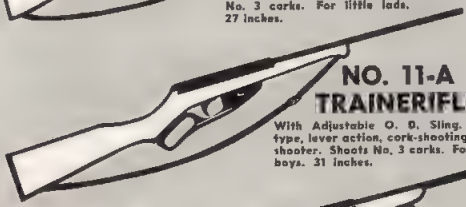

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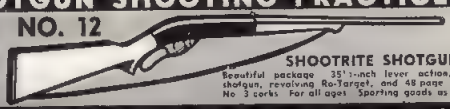

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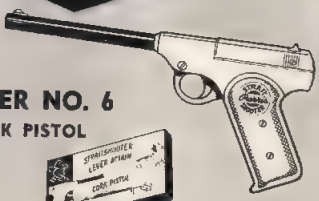
LEVER ACTION CORK PISTOL

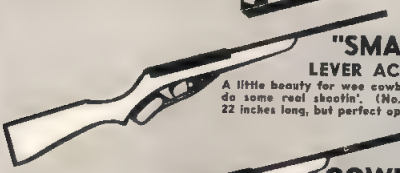
Same breach-breaking, cocking action as our No. 7. Resembles Colt pistol in appearance, 11 inches long. No. 3 corks. A "cow-pake" necessity.



NO. 4 "SMALL FRY"

LEVER ACTION RIFLE

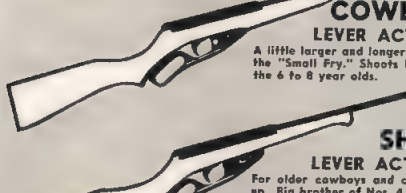
A little beauty for wee cowboys who want to do some real shootin'. (No. 3 corks.) Only 22 inches long, but perfect operating.



NO. 2 COWBOY, JR.

LEVER ACTION RIFLE

A little larger and longer (27 inches) than the "Small Fry." Shoots No. 3 corks. For the 6 to 8 year olds.



NO. 11 SHERIFF'S

LEVER ACTION RIFLE

For older cowboys and cowgirls, 9 years up. Big brother of Nos. 4 and 2, 31 inches. Safe, straight shooting. No. 3 corks.

NO. 1 DELUXE REPEATER

CLICKER PLA-GUN

Nifty "pump gun" for little ones. Pump to set trigger. Snaps! — but does not shoot corks. 22 inches.

COWBOYS' DELIGHT

Dress 'em up in their flashiest cowboy togs and lead 'em to the Parris Lever Action Rifle Counter and watch them grab the style and size that exactly fits their age and preference. It's just love at first sight!

SEE Them At TOY FAIR

ROOM 633 HOTEL NEW YORKER

Don't miss seeing the hottest line of junior weapons and other specialties at the 1951 Toy Fair. In Room 633, Hotel New Yorker, see and shoot our Parris Lever Action Rifles, Cowboy and Soldier Boy models.

REAL PUTTING PRACTICE IN THE HOME

NO. 8 ROL-BACK and NO. 9 PUTT TRAINER

Rol-Back cups the ball and returns it to player. *Putt-Trainer*, 9-hole portable, "Bent-grass" texture felt "green" for complete putt-game. Hours of fun, exercise and real putting practice for novices or experts. Come to Room 633, New Yorker, and putt with us.

PARRIS-DUNN CORP. World's Largest Pla-Gun Mfrs. **CLARINDA, IOWA, U.S.A.**

The RICHARDSON FLEET for '51...

35 SEDAN CRUISER

Luxury liner of the Richardson 1951 fleet... big, powerful, comfortable... richly-appointed. Sleeps six, with complete housekeeping facilities for extended cruising. You'll be the envy of boating enthusiasts in a beautiful New Richardson 35.

32 SPORT CRUISER

The fisherman and loafer's delight. Cockpit half a boat length long; remainder of boat is big cabin, sleeping four. Complete galley and toilet facilities. Seaworthy, maneuverable. Lots of power in the Gray 150 H. P.

32 SEDAN CRUISER

Finest boat in the middle-priced range. Sleeping accommodations for four. Complete galley and toilet. Full headroom. Big enclosed deckhouse and roomy cockpit in addition to trunk cabin. A great boat for entertaining.

27 SPORT CRUISER

No greater boat value anywhere than the 27 Little Giant. Richardson round-bilge hull gives big-boat performance in any weather. Four can cruise comfortably in this beautiful, economical boat. Gray 100 H. P. or Chrysler 92 H P. standard.

27 SEDAN CRUISER

The brand new 27 Sedan will be a thrilling surprise to you... low lines... two cabins sleeping four... full headroom throughout, including toilet... galley with stove, sink, ice chest. Entire layout is different! You'll be amazed at its roominess.

See the RICHARDSONS at the Shows!

RICHARDSON BOAT CO., INC., NORTH TONAWANDA, N. Y.

...means QUALITY BOATS *for Everyone*

View of big deckhouse of the Richardson 35 Sedan. Wheel and controls are on starboard side for best vision. Full-length wardrobe is opposite Dinette, V-bunks seen through the companionway

Main cabin of the 35, looking forward. Between dinette converting to double bed and forward sleeping compartment is a large locker. Opposite dinette are complete galley and enclosed toilet

Looking forward into cabin of the 32 Sport Cruiser. Dinette converts to double bed. Twin V-bunks are equipped with innerspring mattresses. Plenty of storage space for blankets and other duffel is below bunks

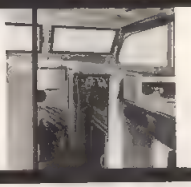
The dinette on the Richardson 32 Sport Cruiser converts to wide, comfortable double bed. Door to cockpit controls above dinette seat. Sliding windows are screened and have venetian blinds as standard equipment.

The spacious galley on the 32 Sedan has a two-burner alcohol stove, metal sink, dish racks, and sliding windows with venetian blinds. Ample storage space below. Complete toilet facilities are opposite galley.

Controls on the 32 Sedan Cruiser are on the starboard side for unobstructed view of danger zone, a feature of all Richardsons. Through companionway one sees galley and V-bunks with full-hanging locker between.

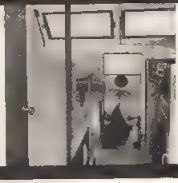
The 27 Sport cabin looking aft. Convertible dinette and a complete galley on port side. Opposite galley is enclosed toilet, opposite dinette is lounge converting to wide upper and lower bunks.

You'll find an efficient galley on the Richardson 27 Sport Cruiser. All the space you need to move around in. Two-burner alcohol stove is big enough to cook for a dozen people. Dishes can't fall out of the big rack.



You'll like the intimacy of the 27 Sedan's deckhouse, for there's no law against talking to the skipper. Everything right in deckhouse, including galley. Good ventilation. Large cockpit aft for fishing and swimming.

Write today for full descriptive material on all Richardson models. Order now for early Spring delivery.



Here is compact interior of the new Richardson 27 Sedan Cruiser. Twin V-bunks are in cabin forward. Deckhouse cabin has convertible dinette and full-headroom toilet on port side with controls and galley opposite.

RICHARDSON *Cruisers of Tomorrow*

RICHARDSON BOAT CO., INC., NORTH TONAWANDA, N. Y.

*These Guns are a part of an extensive collection of antique guns now on exhibit at J. & E. Stevens New York Salesroom 1107 Broadway, New York City

These Firearms Helped Write History

The story of these old guns would almost be the story of America's pioneering days. They helped win battles and keep law and order.

Old "shootin' irons" are a part of our nation's traditions. That's one reason why a realistic toy gun stirs a boy's imagination . . . whets his spirit of independence.

a. 42 Cal. owned by Aide to President Abraham Lincoln

b. 1860 Army Model used extensively in Civil War Cavalry

c. Remington 44 Cal. owned by Wild Bill Hickock (Frontier Marshall)

d. 36 Cal. Colt. Owned by Abraham Lincoln

e. Colt Lightning Model used by Marshall Clark of Texas Rangers

f. Derringer type percussion Pistol date 1835

BUFFALO BILL in nickel finish.

[**PAWNEE BILL** in Gold Finish. (Also available in nickel finish)

But This Is 1950 . . . and out of the west comes the Stevens Quality Line of Toy Guns. . . .

AIM for BIG SALES with

49'ER in Gold Finish. (Also available in nickel finish)

for immediate delivery and real Freight Savings order from your nearest Sales Office

J. & E. STEVENS SALES CO., INC.

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Permanent N. Y. Showroom: 1107 Broadway, New York 10, N. Y.

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121 N. Marion St.

COWBOY KING in Gold Finish. (Also available in nickel finish)

PEACEMAKER in Gold Finish. (Also available in nickel finish)

See us at the **TOY FAIR** in Room 642 HOTEL **NEW YORKER**

Flat Repeaters
Western Repeaters
Western Single Shots

These Top-Notch STEVENS TOY GUNS!

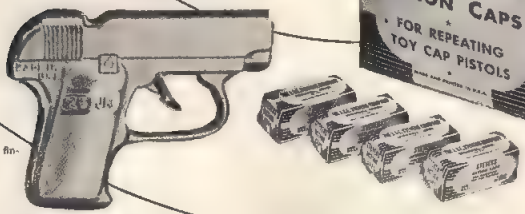
The Most Complete Line of Toy Guns Available

Send for complete catalog or consult your listings.

for a Real Sales Combination

Display STEVENS ➡ Action Caps and Guns!

A loud sure-shooting Cap Best for performance in any Cap Pistol Stevens Action Caps come in 50 shot rolls, 250 shots to a box Packed 5 Rolls to the Box . . 5 Dozen Rolls to the Display Carton . . . 5 Gross Boxes to Shipping Carton. Weight 13 lbs.



25 JR. in nickel finish.

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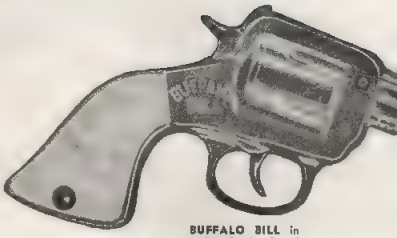
Old "shootin' irons" are a part of our nation's traditions. That's one reason why a realistic toy gun stirs a boy's imagination . . . whets his spirit of independence.

a. 42 Cal. owned by Aide to President Abraham Lincoln
b. 1860 Army Model used extensively in Civil War Cavalry
c. Remington 44 Cal. owned by Wild Bill Hickock (Frontier Marshall)
d. 36 Cal. Colt. Owned by Abraham Lincoln
e. Colt Lightning Model used by Marshall Clark of Texas Rangers
f. Derringer type percussion Pistol date 1835



BUFFALO BILL in nickel finish. Retail Price 69c.

PAWNEE BILL in Gold Finish Retail Price 89c (also available in nickel finish).

But This is 1950 . . . and out of the west comes the Stevens Quality Line of Toy Guns. . . .

AIM for BIG SALES with

49'ER in Gold Finish. Retail Price $1.59 (also available in nickel finish).

for immediate delivery and real Freight Savings order from your nearest Sales Office

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Boston, Mass.
22 Hanover St.

Memphis, Tenn.
Radio Center Bldg.

Oak Park, Ill.
121 N. Marion St.

COWBOY KING in Price, $1.39 (also Gold Finish. Retail available in nickel finish).

PEACEMAKER in Gold Finish. Retail Price $1.00 (also available in nickel finish).

See us at the **TOY FAIR** in Room 642 HOTEL **NEW YORKER**

Flat Repeaters
Western Repeaters
Western Single Shots

these Top-Notch STEVENS TOY GUNS!

The Most Complete Line of Toy Guns Available

Send for complete catalog or consult your listings.

for a Real Sales Combination
Display STEVENS ➡ Action Caps and Guns!

A loud sure-shooting Cap. Best for performance in any Cap Pistol. Stevens Action Caps come in 50 shot rolls, 250 shots to a box. Packed 5 Rolls to the Box . . . 5 Dozen Rolls to the Display Carton . . . 5 Gross Boxes to Shipping Carton. Weight 13 lbs.

25 JR. in nickel finish. Retail Price 49c.

Strombecker

Strombecker Model Kits

Solid wood assembly models of famous planes. Ready-shaped parts. Easy to assemble. Realistic.

Piper Cub Super Cruiser

Scale ¼ inch to 1 foot. Dimensions when assembled, wingspan 8⅝ inches. Fuselage 5¼ inches. Height 1⅝ inches. Packed in folding box 9x3x1⅝ inches. Instruction sheet and all material necessary for assembly included

Stock No.	Mfr's. No.	lb Doz.	Fact. List EACH
4H 2966	C84	2⅓	$0.59

Six dozen in a case.

Piper Cub Super Sea Scout

Scale ¼ inch to 1 foot. Dimensions when assembled, wingspan 8⅝ inches, fuselage 5¼ inches, height 1⅝ inches. Packed in folding box 9x3x1⅝ inches. Instruction sheet and all material necessary for assembly included

Stock No.	Mfr's. No.	lb Doz.	Fact. List EACH
4H 2967	C87	2⅔	$0.59

Six dozen in a case.

Swift 125 Land Cruiser

Scale ¼ inch to 1 foot. Dimensions when assembled, wingspan 7½ inches, length 5⅛ inches. Complete with instruction sheet and all necessary material for assembly. 3 color folding carton 9x3x1⅝ inches.

Stock No.	Mfr's. No.	lb Doz.	Fact. List EACH
4H 2968	C89	2⅔	$0.59

Six dozen in a case.

Swift 125 Sea Plane

Scale ¼ inch to 1 foot. Dimensions when assembled, wingspan 7½ inches, length 5⅛ inches. Packed in 3 color carton 9x3x1⅝ inches. Has all necessary material for assembly and instruction sheet.

Stock No.	Mfr's. No.	lb Doz.	Fact. List EACH
4H 2969	C40	2⅔	$0.59

Six dozen in a case.

P80—"Shooting Star"

Scale 1/8 inch to 1 foot. Jet-propelled super fighter. Dimensions when assembled wingspan 6⅛ inches, fuselage 5⅜ inches, height 1⅜ inches. Complete with display stand full color decal insignia. All necessary instructions for assembly included. Packed in 3 color box 9x3x1⅝ inches.

Stock No.	Mfr's. No.	lb Doz.	Fact. List EACH
4H 2970	C82	2⅔	$0.69

Six dozen in a case.

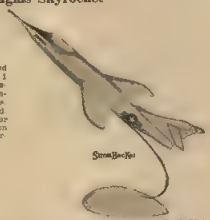
Beechcraft Bonanze

Four place single engine, low wing monoplane. Scale ¼ inch to 1 foot. Dimensions when assembled, wingspan 8⅛ inches, length 6⅛ inches. Instruction sheet and all necessary material for assembly Packed in colortul carton 9x3x1⅝ inches.

Stock No.	Mfr's. No.	lb Doz.	Fact. List EACH
4H 2971	C61	2⅔	$0.69

Six dozen in a case.

Douglas Skyrocket

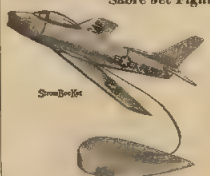


Navy jet-rocket powered plane, scale 1/6 inch to 1 foot. Dimensions when assembled, wingspread 4¼ inches, fuselage 5⅛ inches. Complete with display stand. All material necessary for assembling and instruction sheet Packed in folding carton 9x3x1⅝ inches

Stock No.	Mfr's. No.	lb Doz.	Fact. List EACH
4H 2972	C42	2⅔	$0.69

Six dozen in a case.

Sabre Jet Fighter



U. S. Air Force swept wing fighter. Scale ¼ inch to 1 foot. Dimensions when assembled—wing span 6⅛ inches, length 6¼ inches. Complete with display stand, full color decal insignia and trim, plastic pilot's canopy, and detailed illustrated instructions. Packed in folding box, 9x3x1⅝ inches.

Stock No.	Mfr's. No.	lb Dozen	Fact. List EACH
4H 2982	C44	2⅝	$0.69

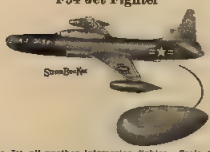
Seventy-two in a case.

Strombecker

Strombecker Model Kits

Solid wood assembly models of famous planes. Ready shaped parts
Easy to assemble. Realistic.

F94 Jet Fighter



Air Force Jet all-weather interceptor fighter. Scale 1/8 inch to 1 foot. Dimensions when assembled, wingspan 8½ inches, length 8¾ inches. Complete with display stand, full color decal insignia and trim, plastic pilot's canopy, and detailed illustrated instructions. Packed in folding box 9x9x1⅝ inches.

Stock No.	Mfr's. No.	Dz. Doz.	Fact. List EACH
4H 2959	C43	2¾	$0.79

Six dozen in a carton.

DC-3—Flagship

Two engine Douglas transport. Scale 1/72 inch to 1 foot. Dimensions when assembled, wingspan 10¼ inches, length 7 inches. All necessary material for assembling and complete instructions. Packed in folding carton 12⅝x3¼x1⅝ inches.

Stock No.	Mfr's. No.	Dz. Doz.	Fact. List EACH
4H 2978	C35	3½	$0.69

Six dozen in a case.

Convair Flagship

Twin engine Consolidated Vultee transport. Scale 1/72 inch to 1 foot. Dimensions when assembled, wingspan 10 inches, length 8¼ inches. Complete with full instructions for assembling. Packed in a 3 color carton 12⅝x3¼x1⅝ inches.

Stock No.	Mfr's. No.	Dz. Doz.	Fact. List EACH
4H 2974	C38	4	$0.79

Six dozen in a case.

P-61C—Black Widow

Twin engine night fighter. Scale 1/8 inch to 1 foot. Dimensions when assembled, wingspan 11 inches, fuselage 8¼ inches, height 2½ inches. Instruction sheet and all material for assembling included. Packed in a box 12x3⅝x1⅝ inches.

Stock No.	Mfr's. No.	Dz. Doz.	Fact. List EACH
4H 2975	C39	6	$1.29

Three dozen in a case.

DC-6—Flagship

Four engine transport. Scale 1/72 inch to 1 foot. Dimensions when assembled, wingspan 12 inches, length 11 inches. Instruction sheet and all material necessary for assembling included in 3 color set up box 12x3⅝x1⅛ inches.

Stock No.	Mfr's. No.	Dz. Doz.	Fact. List EACH
4H 2976	C36	7	$1.19

Three dozen in a case.

B-24J—Liberator

Four engine heavy bomber. Scale 1/6 inch to 1 foot. Dimensions when assembled, wingspan 18⅛ inches, fuselage 11⅛ inches, height 3⅛ inches. All material for assembling included and full detail instruction sheet. Packed in a set up box 15⅛x4¾x1⅛ inches.

Stock No.	Mfr's. No.	Dz. Doz.	Fact. List EACH
4H 2977	C76	12	$1.89

Two dozen in a case.

B29 Superfortress

Heavy bomber. Scale 1/8 inch to 1 foot. Dimensions when assembled, wingspan 23⅝ inches, fuselage 16⅛ inches, height 4⅜ inches. Instruction sheet with full details for construction and all necessary material included. Packed in set up box 17⅜x6⅝x2 inches.

Stock No.	Mfr's. No.	Dz. Doz.	Fact. List EACH
4H 2978	C250	20	$3.00

One dozen in a case.

THE BIG, COLORFUL, PROFITABLE LINE

"Live Action" PULL Toys by STRUCTO

Die-Cast Aluminum Cabs and Chassis . . . Stamped Steel Bodies

NO. 700 Transport Trailer

No. 702 Steel Cargo Trailer

Because Children Like Them, Adults Buy Them

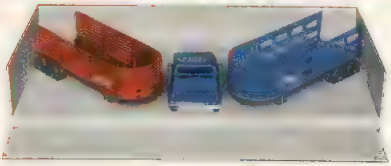
No. 402 Machinery Truck and Steam Shovel
Patented
(2 Complete Items . . . Sold as One Unit)

No. 105 Heavy-Duty Steam Shovel
Patented

No. 250 Aerial Fire Truck

They're "CHILD-CONDITIONED"

No. 706 Combination Cab with 2 Trailers (702 and 704 Types)



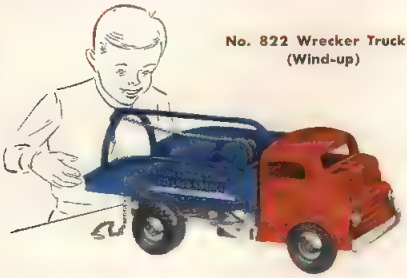
Three complete items sold as one toy. You'll find it a popular, profitable trio. This set includes one cab and a 702 trailer and 704 trailer. All three are packed in an attractive display carton that is easy to set up. Simply remove cover. Front of carton will drop down and form an attractive counter display. A proven, effective sales maker.

STRUCTO MFG. CO.
MAIN OFFICE AND FACTORY • FREEPORT, ILLINOIS
NEW YORK OFFICE—ROOM 538, 200 FIFTH AVE. BLDG.

...OF FINEST TOYS FOR AMERICAN BOYS

"Live Action" MECHANICAL Toys by STRUCTO

Built to Last a Child-Time . . . More Appeal Than Ever Before



No. 822 Wrecker Truck
(Wind-up)

No. 844 Hi-Lift Dump Truck
(Wind-up)

The Most Sensational Motor in the History of the Toy Business

Makes Two Toys in One

This sturdy clock spring motor, using a 10 ft. spring, is something entirely new in free-wheeling motors. It permits the toy to be played with both as a pull toy and a wind-up toy. This new "Fluid-Action" motor was designed in our own research department, by our own engineers, and is manufactured exclusively by STRUCTO. Performs approximate 60 foot runs at slow simulated truck speeds . . . on the straight-away or in adjustable circles.

ON STRUCTO WIND-UP TOYS

Protected by Patents

Two More Profit-Making STRUCTO Pull Toys

No. 704 Overland Freight Trailer

No. 500 Utility Truck
Patents Pending

AT THE FAIR: ROOMS 525 and 526, HOTEL NEW YORKER

ALSO NEW YORK OFFICE—ROOM 538, 200 FIFTH AVE. BLDG.

THE BIG, COLORFUL, PROFITABLE LINE

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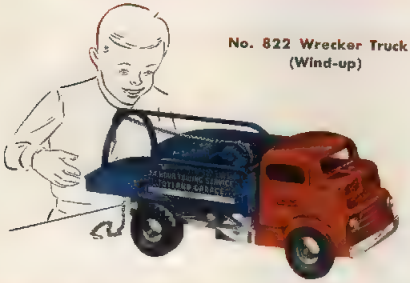

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Patents Pending

AT THE FAIR: ROOMS 525 and 526, HOTEL NEW YORKER
ALSO NEW YORK OFFICE—ROOM 538, 200 FIFTH AVE. BLDG.

SERENE Brown dial framed by smart ivory color case with curtain tieback effect $4.50

BEAUTIFUL! PROFITABLE! CAN'T RUN WRONG*!

LITTLE TEL Neat, modern-style alarm. Easy-to-read dial. Ivory or brown color $4.95

TEMPO Simply designed to suit any room décor. Ivory color case. Luminous hands and numerals $5.95

NOCTURNE Automatic alarm. Case in ivory or bronze color. Luminous features $7.95

GUEST Graceful scroll design. Wide angle vision. Luminous or non-luminous $4.95

TEL-A-GLOW Completely luminous alarm clock. Case, ivory color by day, glows at night $6.95

IMP Compact, "new look" alarm. Convex anti-glare crystal. Ivory or brown color $4.95

TELECHRON Electric Clocks give you a ★ top product

DISPLAY THEM WELL

*Telechron Synchro-Sealed motor is synchronized perfectly with electric current in electric power plants so it has to run right.

Telechron®

ELECTRIC CLOCKS

Silent! Need no winding, oiling, regulating! Full-year warranty! Variety of colorful styles for every room in the house. Start as low as $4.50**.

IVY Biggest excitement ever in electric kitchen clocks! Will hold real vines. Stands or hangs . $7.95

ADVISOR Clean, classic design in duo-tones to help color-style the modern kitchen $5.95

STEWARDESS Tastefully designed, conventional style kitchen clock. Read-at-a-glance dial $5.95

DECORATOR Most popular kitchen styler. Removable snap-in color band behind numerals $6.95

JUBILEE Top o' the morning design kitchen clock. Wide-angle vision, easy to read $4.95

PRUDENCE Beautiful curved lines, beautiful low price in a popular kitchen clock $4.50

★ top profit ★ top promotion

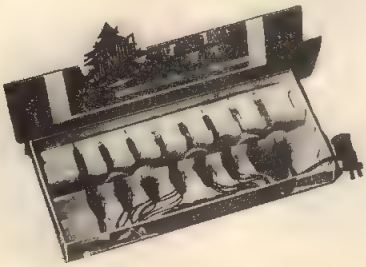
terrific store displays—see your distributor for details on Time Table displays, and *Sales Training booklet*

...AND WATCH THEM SELL

***Prices plus tax. Prices and specifications subject to change without notice. Telechron Department, General Electric Co., Ashland, Mass.*

Mention Hardware Age When Writing

FASCINATING BUBBLING LIGHTS



No. 103
8 LIGHT SERIES BUBBLING LITE OUTFIT

Attractive, colorful lights bubbling with action. Complete with metal clips to fasten to tree branch in upright position. Add-on plug for attaching additional outfits. Assorted colored lamps.

Standard Packing: 20

Per Set	$2.05
In Lots of 20	$1.90

No. 1107
7 LIGHT MULTIPLE BURNING BUBBLING OUTFIT

Standard Packing: 25 to Carton

Per Set	$3.10
In Lots of 25	$2.90

No. 60
BUBBLING BULBS

Series type, miniature base, 15 volt. Colorful glass bubble candles with multi-colored plastic housing, attractively packaged 20 to a display box. Complete with spring metal clip for simple fastening to tree branch. Assorted colors.

Standard Packing: 500

Per Carton	$3.60
In Lots of 20 Cartons	$3.40

No. 70
MULTIPLE BURNING BUBBLING LAMPS

120 volt, candelabra base, assorted colors.
Standard Packing: 10 to box, 100 to carton.

Per Carton	$5.60
Lots of 20 Cartons	$5.25

GENERAL ELECTRIC REPLACEMENT BULBS

C-6 BULBS

15 Volt, miniature base, series type Christmas Tree lamps. Bulbs packed 10 of one color in a box, or 10 assorted colors in a box. Colors: Red, blue, green, orange and white.

Carton	$ .60
Lots of 100 Ctns.	$ .57

C-7½ BULBS

120 Volt, candelabra base for use in multiple burning outfits. EACH LAMP BURNS INDEPENDENTLY. Packed 10 of a color in a box, or 10 assorted to a box. Colors: Red, blue, green, orange and white.

Carton	$1.10
Lots of 100 Ctns.	$1.05

C-9½ BULBS

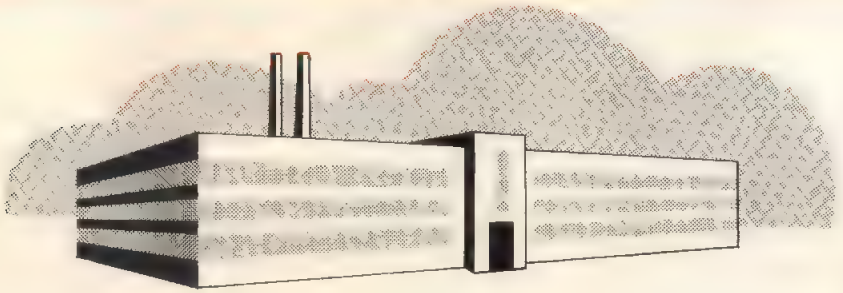
120 Volt, intermediate base, inside color for outdoor use. Packed 10 of a color in a box or 10 assorted to a box. Colors: Red, blue, green, orange and white.

Carton	$1.34
Lots of 50 Ctns.	$1.28

We're getting **BIGGER** all the time!

We've added *120,000 sq. ft.* of manufacturing space!

Don't Compromise on Quality--
Buy Transogram!



TRANSOGRAM MIDWEST, Inc.

STURGIS, MICHIGAN

STOP IN TO SEE US AT TOY FAIR TIME, MARCH 5th to 16th, FIFTH AVENUE BUILDING, ROOMS — 234-236-238

and Engineers in collaboration

Design and Packaging field have completed a truly ingeniously new outstanding line for 1951

TRANSOGRAM COMPANY, INC.

MANUFACTURERS OF
"GOLD MEDAL" TOYS • GAMES
PLASTICS • FURNITURE

FACTORIES
No. 1 — Boston, Pa. ● No. 2 — Coudersport, Pa. ● No. 3 — Long Island City, N. Y. ● No. 4 — Roulette, Pa. ● No. 5 — Sturgis, Mich

REPRESENTATIVES
McClellan & Stephenson, San Francisco, Calif. ● Chaplins & Co., Kansas City, Mo. ● Burgess Toy Sales Corp [illegible] ● Howell L. Myers, Dallas, Texas

A

G

B

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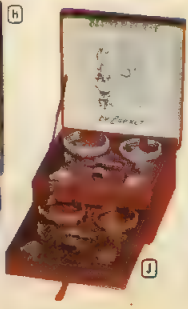

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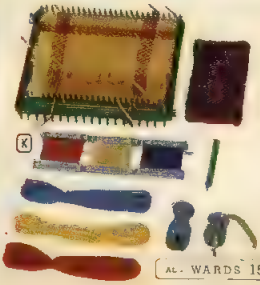


K

Metal Doll Houses with Furniture

REALISTIC PLASTIC FURNISHINGS FOR EVERY ROOM . CAR IN GARAGE

Front View of (A) Shown Opposite Page

Front View of (B), Shown Opposite Page

DE LUXE EXTRA LARGE DOLL HOUSE WITH FURNITURE 7.85

A FIVE LARGE ROOMS AND A SUNDECK, WITH A COMPLETE SET OF DELUXE PLASTIC FURNITURE. Plus a "Rolls Royce" in the garage. Five detachable metal awnings (see front view, left) on our largest (33¼x12x18¾ in. high), extra sturdy metal house. 2-story Colonial type with attached garage, open sundeck. Edges and corners are smoothly rolled metal—no sharp edges to hurt little hands. Outside beautifully lithographed in glossy finish to resemble white brick, red clapboard, slate color shingle roof. Interior lithographed to resemble latest in wallpaper, rugs, draperies and pictures for walls. Rear of house open as shown (A) opposite page—a little girl can have hours of fun arranging furniture. 5 open windows framed with shutters. "Rolls Royce" plastic car, 9 in. long. Molded plastic furniture larger than that in house below to fit this larger house. Well-planned rooms are more completely furnished. Sofa, 5½ in. long; other pieces in proportion. With 27 decals for applying "pretend" petit point chair seats, etc.

LIVING ROOM FURNISHINGS include carefully detailed molded plastic Sofa, Chairs, Tables, Television Console and Lamp.

DINING ROOM FURNISHINGS are 18th Century in design . . . Table, Chairs and Cabinets.

KITCHEN FURNISHINGS include modern Double Sink, Refrigerator, Stove, Table, Chairs, Cabinet.

NURSERY IS FURNISHED with a Crib, Play Pen, Chest, Potty Chair and a High Chair.

BEDROOM FURNISHED with decorator-style Bed, Chest, Vanity, Boudoir Chairs, Night Table, Lamp.

BATHROOM FURNITURE includes new style Corner Tub, Washstand, Stool, Hamper and Commode.

SUNDECK IS FURNISHED with Umbrella Table, Chaise Lounge and Lounge Chairs.

48 T 4452 M Shipped flat, easy to assemble without tools. *Mailable.* Ship. wt. 12 lbs. . $7.85

LARGE SIZE HOUSE WITH FURNITURE AND FAMILY 3.95

B FIVE ROOMS AND A SUNDECK, WITH A COMPLETE SET OF PLASTIC FURNITURE. "Cadillac" in the garage. Good sized (25½x9½x15½ in. high), sturdy, 2-story suburban Colonial style metal house, attached garage, open sundeck. Smoothly rolled metal house, no sharp edges. Outside is attractively lithographed to resemble white clapboard and stone, red shingle roof (see front view, left). Interior has lithographed wallpaper, rugs, draperies, etc. 1 large picture window, 3 others with lithographed shutters—all are open. Rear of house is open, see (B) opposite page. 6½-in. plastic limousine. 3-pc. Vinyl plastic doll family included. Finely detailed molded plastic furniture (3⅝-in. sofa, other pieces are in proportion).

LIVING ROOM FURNISHED with comfortable Sofa, Chairs, Tables, Television Console, Lamps.

DINING ROOM FURNISHINGS in 18th Century. Table, Chairs, Cabinets.

KITCHEN FURNISHINGS include latest style Sink, Refrigerator, Stove, Table, Chairs.

NURSERY IS FURNISHED with wee Crib, Play Pen, Potty Chair and Chest

BEDROOM FURNISHINGS include Bed, Vanity, Boudoir Chairs, Chests and Night Table.

BATHROOM FURNITURE includes Tub, Washstand, Stool and Hamper.

SUNDECK IS FURNISHED with Umbrella Table, Chaise Lounge and Lounge Chairs.

48 T 4454 M—Shipped flat, easy to assemble without tools. *Mailable.* Ship. wt. 6 lbs. 8 oz.. $3.95

PLASTIC DOLL HOUSE FAMILY AND OTHER MINIATURE ACCESSORIES 83c TO 97c

C 5-PC. FAMILY. Washable colored plastic figures. Fit furniture in both houses shown. Father, Mother, Daughter jointed at waist and knees—can sit, kneel, etc. Twin babies have movable arms and legs. Father 4¼ in. tall, other figures in proportion.

48 T 4481—Ship. wt. 8 oz. . . . Set 95c

D 3 MINIATURE TABLE LAMPS . . . Really light. She will be delighted with these little plastic lamps in assorted colors, about 2½ in. high, with removable shades. Complete with bulbs and batteries, they actually light up when you turn the shade.

48 T 4455 Ship. wt. 6 oz. . . . .Set of 3 for 83c

E MINIATURE KITCHEN EQUIPMENT SET. A complete set of utensils and appliances in finely detailed molded plastic—assorted colors, silver and white. The wee kettles and boilers with removable lids, the mixer with removable bowl will delight the young housekeeper.

48 T 4520—Ship. wt. 6 oz.. . . . . 12-pc. set 97c

F MINIATURE TABLEWARE SET. To use in either kitchen or dining room of a doll house. Assorted bright colored washable plastic: complete service of dishes for 8, plus tray, tea set, vases, candlesticks, cradle type telephone, books in bookends.

48 T 4512—Ship. wt. 6 oz. . . . . 31-pc. set 97c

SAMPLER CARDS . . . MAKE-UP KIT . . . "JEWELRY" . . . WEAVING LOOM

SAMPLER CARDS WITH FLOSS 94c

G Girls up to 12 will like working samplers attractive enough to frame when completed. 5 Original Ann Orr designed sampler cards on special perforated paper-board have stamped-on pictures showing proper colors to use. Set also includes 6 skeins embroidery floss in assorted colors, 1 tapestry needle, full color instruction guide sheet

48 T 4727—Gift Boxed. Ship. wt. 1 lb. . . . 94c

CHEST OF PLASTIC "JEWELRY" 1.45

J Glitters just like gold and silver -a small girl can bedeck herself to her heart's content . . . "jewels" look like mother's costume jewelry. Two-drawer chest contains 16 gold and silver plated plastic pieces . . . one drawer each of gold and silver: "play" wrist watch, pair of earrings, ring, bracelet, barrette, brooch and a clip-on scatter pin.

48 T 4548—Ship. wt. 12 oz. . . .18-pc. set $1.45

LADY LOVELY BEAUTY KIT 1.75

H For little girls who like to "fix up." Sturdy cardboard kit with metal handle and snap lock has plastic fittings: lipstick tube, manicure set with "play" polish, "play" perfume. Plus a vanity with real mirror and places for snapshots rouge and powder compacts with "play" mirrors; containers for powder, cream; cake of soap; plastic comb; "charm-chart" with grooming hints. Kit, 137/8x8½x2½ in.

48 T 4652 Ship. wt. 1 lb. $1.75

STEEL WEAVING LOOM OUTFIT 1.79

K Girls up to 12 will enjoy making belts, coasters, billfolds, etc. Adjustable loom makes pieces up to 7 inches square. Set: 3 skeins ea assorted color plastic ribbon and wool yarn. Wood handle pick, steel weaving needle, large and small knitting spools. Can also be used for weaving silk ribbon, leather, etc.

48 T 4744—Ship. wt. 1 lb. Instructions . . . $1.79

WARDS MONTHLY PAYMENT PLAN, PAGE 257.

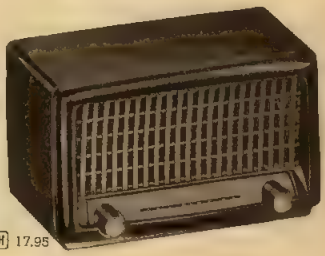
C 55.95

D 37.95

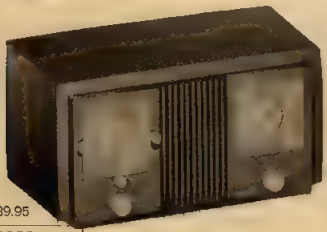
E 37.95

F 22.95

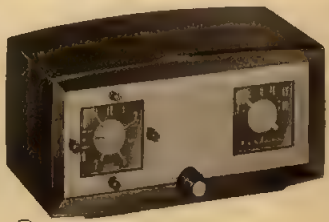
G 52.95



H 17.95

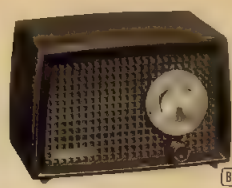


J 39.95



K 31.95

A 24.95



B 13.95

Radios and Phonographs . . . Always Welcome Gifts

PERSONAL PORTABLE FOR CHRISTMAS GIVING 24.95

A A compact, Portable Radio that's small but mighty! Weighs only 3½ lbs. with batteries, but performs with plenty of sensitivity and selectivity. Use it anywhere—even while riding or walking. Hear your favorite programs wherever you go. Case is almost unbreakable; made from new, tough and flexible Boltaron plastic. Has eye-catching blue and gray colors.

DYNAMIC SPEAKER GIVES FINE, CLEAR TONE. 4 tube Superhet tunes Standard Broadcast. Built-in Air Wave antenna has good station pick-up. Size 8¼ by 5½ by 2½ in. deep. $2.50 Dn, $5 Monthly.

82 T 1167 Y—Complete with batteries. Ship. wt. 5 lbs. . .Cash $24.95

PORTABLE AUTOMATIC 3-SPEED PHONOGRAPH 55.95

C Plays all sizes of records at 78, 33⅓ or 45 rpm., automatically! Play your favorite records on this outstanding phonograph with simplified controls. Just load it up and enjoy uninterrupted entertainment. May be closed while playing.

EXCEPTIONALLY FINE TONE AND VOLUME—5-inch PM dynamic speaker. Tone control and separate volume control. Sturdy case with gray and white fabric covering. Long-life needle included. Two amplifier tubes plus rectifier. On-Off-Reject switch and speed selector. For AC only. Size 15⅜ by 8⅞ by 15¾ in. deep. Ship. wt. 22 lbs.

82 W 984 R—Express. $9 Down, $5 Monthly. . . . . .or Cash $55.95

PORTABLE 3-SPEED AIRLINE RADIO-PHONOGRAPH 37.95

E Top performance from both Radio and Phonograph. Plays all sizes of records at 78, 33⅓ and 45 rpm. Tunes the Standard Broadcast band for regular radio programs. A wonderful gift for the teen-ager who wants a radio and phonograph of his own.

YOU CAN CARRY IT ANYWHERE TO PLAY IT—plugs into house electric outlet. Built-in Air Wave antenna has good station pick-up. 4 tubes plus rectifier in dependable Superhet circuit. Case has grey and white whipcord plastic fabric covering; red interior. Long life needle included. It's a fine gift that will be appreciated. For AC only. Size 5⅝ by 14⅜ by 11½ in. deep. Express.

82 T 934 R—Ship. wt. 15 lbs. $4 Down, $5 Mo. . . . . .or Cash $37.95

WARDS BEST PLASTIC FM-AM TABLE RADIO 52.95

G Excellent FM performance and AM distance-getting ability. Tunes Standard Broadcast for all regular programs plus superb musical programs on FM. Beam power output provides plenty of volume.

BEAUTIFULLY CLEAR AND LIFE-LIKE TONE, especially on FM. Full-range tone control for treble to bass. Automatic volume control. 5-inch speaker. Built-in antennas for FM, AM. Phonograph jack on rear.

7 TUBES PLUS RECTIFIER. AC Superhet. Brown plastic cabinet with wide, lighted dial. UL Listed. AC only. Size 15⅛ by 9⅞ by 8¾ in. deep

82 T 1545R—Ship. wt. 19 lbs. Express. $8 50 Dn., $5 Mo. or Cash $52.95

G.E.'S. FINEST ELECTRONIC SERVANT RADIO 39.95

J An excellent Clock Radio with "electronic servant" that turns on any appliance using less than 1100 watts. Turns on radio at pre-set time for waking you up to music. "Wake-up" switch with buzzer alarm arouses sound sleeper. Buzzer sounds about 7 minutes after radio turns on, if desired. Slumber switch shuts off radio or appliance. Has accurate self-starting, self-regulating G.E. clock.

CABINET IN RICH BROWN MAHOGANY PLASTIC FINISH. 5-tube Superhet plus rectifier, including tuned r.f. stage for greater sensitivity and selectivity. Built-in Beamascope antenna, Dynapower speaker. 11¼ in. wide, 5¾ in. high, 6 in. deep. UL Listed. For AC only.

82 WP 865 M—*Postpaid*. $4 Down, $5 Monthly. . . . . .or Cash $39.95

NEW LOW-PRICED AIRLINE TABLE SET 13.95

B Extra small Table Radio in 3 decorative colors. Refreshingly new cabinet styling gives pleasing appearance that will add extra beauty to kitchen, bedroom or den. Clear plastic dial.

NEW, POWERFUL TELEVISION TYPE TUBES in Superhet circuit make possible the use of built-in antenna and greater sensitivity than most other sets of this size. A fine set for metropolitan areas; brings in nearby stations with excellent volume. UL Listed. For AC or DC. Size 8⅜ by 5½ by 4⅞ in. deep.

Ship. wt. 4 lbs. 4 oz. *Mailable*.

62 T 1565 M—Walnut $13.95
62 T 1564 M—White. $14.45
62 T 1566 M—Red. 14.45

RUGGED 3-WAY AIRLINE PORTABLE RADIO 37.95

D Remarkably fine performance and dependability at a low price. A welcome gift at Christmas time . . . or large portable radio that plays indoors or out—instant warmup. Large built-in Air Wave antenna. Actual wt. only 12 lbs. . . . easy to carry.

PLAYS ON AC, DC OR 250-HOUR BATTERY PACK (included). 4 tubes plus rectifier in powerful Superhet circuit. PM dynamic speaker with Alnico magnet gives clear, resonant tone. Strong wood case. Durable artificial leather and fabric covering—smart appearance. Size 10¾ by 12¾ by 6¼ in. deep. Ship. wt. 19 lbs.

82 T 1170 Y—W.th battery. *Mailable*. $4 Down, $5 Mo. Cash $37.95

LARGER SIZE PLASTIC TABLE RADIO 22.95 AND 23.95

F Efficient performance and dependable reception. Tunes Standard Broadcast. Makes a fine gift for any occasion. Designed to look well in kitchen bedroom, or living room. Exceptionally good tone quality. PM dynamic speaker is larger than usual because of larger cabinet. Washable woven plastic grille cleans with damp cloth. Built-in Air Wave antenna—move the set anywhere.

4 TUBES PLUS RECTIFIER IN SUPERHET CIRCUIT. Rich-looking cabinet has plastic finish. Attractive circular dial with metal trim. UL Listed. For AC or DC. Size 13 by 8 by 6½ in. deep.

62 W 1553 M—Brown finish. Ship. wt. 9 lbs. *Mailable* $22.95
62 W 1554 M—White finish. Ship. wt. 9 lbs. *Mailable*. . . . 23.95

SMARTLY-STYLED AIRLINE PLASTIC RADIO 17.95

H Dependable performance, good sensitivity and tone make this a fine radio for any room. Tunes your favorite programs on Standard Broadcast, has beam power output for ample volume. PM dynamic speaker. Automatic volume control. Built-in Air Wave antenna.

4 TUBES PLUS RECTIFIER IN SUPERHET CIRCUIT. Modern cabinet has wide, lighted slide rule dial that's easy to tune. UL Listed. For AC or DC. Size 10⅝ by 6¾ by 6½ in. deep. *Mailable*.

62 W 1543 M—Brown. Ship. wt. 8 lbs. $17.95
62 W 1544 M—Ivory. Ship. wt. 8 lbs. . . . 18.95

NEW MODERATELY-PRICED AIRLINE CLOCK-RADIO 31.95

K Enjoy this fine Clock Radio with all the features of higher priced sets. Turns on toaster, coffeemaker, bed lamp, etc. Wakes you up to music at pre-set time and has bell alarm that sounds about 7 minutes after radio turns on, if desired. Will shut off radio or appliance within 90-min. period. Has accurate self-starting, self-regulating clock with all controls on front.

CABINET IN CHOICE OF WHITE OR DARK MAHOGANY PLASTIC. 4 tubes plus rectifier gives good performance. Built-in Air Wave antenna. PM dynamic speaker. UL Listed. For AC only. Size 11⅛ by 8 by 5⅛ in. deep. Ship. wt. 8 lbs. *Mailable*. Only $3.50 Down, $5 Monthly.

82 T 1548 M—Mahog. Cash $31.95 82 T 1549 M—White. Cash $32.95

ORDERS OF $20 OR MORE FOR ONLY 10% DOWN. ITEMS PRICED $50 OR MORE, 15% DOWN. SEE PAGE 257 FOR "HOW TO OPEN A MONTHLY PAYMENT ACCOUNT AT WARDS."

Colorful Mechanical Toys with Amusing and

[1] MOT-O-RUN ELECTRIC HI-WAY EXPRESS. 5 wee cars zip around, pass, snarl and unsnarl, even crash. 1⅞-in. cars driven by rapid vibration of electric track. Detour arms swing out to cause traffic jams. Lithographed metal. Underwriters Approved. 110-120-volt, AC. Cord, plug
48 T 2872—27-in. Track. Wt. 3 lbs. 8 oz.. .4.69

[2] WALT DISNEY DONALD DUCK DUET. Goofy dances on bass drum as Donald beats rhythm. Spring motor; brake. Lithographed metal.
48 T 2908—10¼ in. high. Wt. 1 lb. 2 oz....1.67

[3] FUNNY FIREMAN . . . races around in circles, back and forward—hat flying around his head! Plastic and lithographed metal. Wind-up.
48 T 2846—6¾ in. long. Ship. wt. 10 oz...1.09

[4] BALKY MULE . . . eats capers, jiggling farmer back and forth in cart that rears with mule's antics. Lithographed steel. Strong spring motor.
48 T 2816—6¾ in. long. Ship. wt. 12 oz . .89c

[5] HONEYMOON EXPRESS speeds through tunnels, over bridges. Lithographed metal. Enclosed base. Spring motor; brake.
48 T 2901—9¼-in. diam. Wt. 1 lb. 4 oz....1.00

[6] "RIVER QUEEN" STEAMBOAT . . . floats, or runs on floor. A real old-time side wheeler, even to a ramp for admitting show boat audience or loading cargo. Bright colored plastic. Wind-up.
48 T 2914—10½ in. long overall. Wt. 1 lb..1.49

[7] MILK WAGON AND HORSE. Prancing horse pulls bright lithographed metal wagon with big fat metal balloon tires. Spiral spring motor
48 T 2852—10¾ in. long. Ship. wt. 1 lb.... 94c

[8] "CANNON BALL KELLER" 3-PC. SET. Lithographed metal convertible roadster with coil spring motor; plastic 2-wheel trailer which attaches to convertible, separate midget racer with its own wind-up motor. Rubber tires.
48 T 2913—17½ in. overall. Wt. 1 lb. 8 oz..1.75

[9] SPARKLING LOCOMOTIVE puffs harmless sparks from its smokestack. Slight pressure on locomotive starts friction motor. All plastic.
48 T 2904—10½ in. long. Ship. wt. 8 lbs..1.32

[10] DICK TRACY SIREN CAR. Tracy zooms down the street . . . loud siren screaming. High-speed friction motor. Plastic car, steel reinforced.
48 T 2915 10¼ in. long. Ship. wt. 10 oz...1.25

[11] SPARKLING SIREN POLICE CAR . . . cruises about, siren shrieking, harmless sparks flying from machine gun. Lithographed steel car with shiny trim, shows Dick Tracy, etc. Friction motor.
48 T 2896 - 6¾ in. long. Ship. wt. 6 oz.. . .84c

[12] SPARKLING "HOT ROD" . . . goes real fast and shoots harmless sparks that light up motor block. Lithographed steel body; friction motor.
48 T 2902—7½ in. long. Ship. wt. 1 lb. . . .1.21

[13] DRIVING SCHOOL CAR . . . just won't run off edge of any flat surface. It speeds up to very edge, stops, turns and goes in another direction. Lithographed steel; spring motor.
48 T 2895 6¾ in. long. Ship. wt. 6 oz.. . .85c

[14] WALT DISNEY CINDERELLA AND HER PRINCE. Decorated plastic dolls waltz around gracefully; circle; waltz again. Clockspring motor works only when dolls are put on floor or table.
48 T 2864—5 in. tall. Ship. wt. 8 oz.....98c

[15] SINGING BIRD . . . dances about, wags his tail and sings when wound up. Brightly colored plastic, dressed in "tux", top hat. Spring motor.
48 T 2865 5½ in. high. Ship. wt. 6 oz....89c

Realistic Action that Fascinates Young and Old

16 MINIATURE WIND-UP TRAIN ON BASE. All the fun of a big train set 15¾-in. train speeds through tunnel, station on a base, 21½x12¼ in. Lithographed metal; spring motor; brake.
48 T 2847 Ship. wt. 2 lbs. 12 oz .. 1.98

17 FIRE STATION WITH PLASTIC CARS. Push lever . . . automatic door swings up as cars can rush out to fires. 5⅝-in. chief's red car; 6¼-in. fire truck, aerial ladders. Brightly lithographed metal station, 8¾ inches long
48 T 2919—Ship. wt. 1 lb. 8 oz.. 1.27

18 "TOMIC ROCKET. Zooms along at terrific speed . . . sparks fly from exhaust, noisemaker screams. 15-in. Rocket of non-breakable acetate has red nose, tail, white fuselage. Spring motor; brake. Sparker flint replaceable.
48 T 2871—Ship. wt. 1 lb. 8 oz....2.75

19 PLASTIC MILITARY JET FIGHTER. Shoots harmless sparks from exhaust. Friction motor; rubber tires.
48 T 2870—12½ in. long. Wt. 1 lb. 1.35

20 ARMY STAFF CAR WITH HEADLIGHTS that run on flashlight battery (not incl., order below). 9¼-in. steel car; spring motor; rubber tires.
48 T 2917 -Ship. wt. 1 lb..... 1.45
86 W 3259 X— Battery. Wt. 12 oz....12¢

21 HOMEGUARD anti-aircraft truck with siren. Metal swivel cannon fires dummies. 2 hook-on ladders. Plastic rubber tires. Friction motor 12 in. long.
48 T 2916—Ship. wt. 1 lb. 12 oz....1.85

22 PLASTIC WALKING DOLL toddles from one foot to other, moves arms. "Wears" plastic sleepers. Spring motor
48 T 2807—9 in. tall. Wt. 1 lb. 2 oz. 1.69

23 SPARKLING FRICTION DREADNAUGHT on hidden wheels, shoots harmless sparks. Lithographed steel.
48 T 2898—14½ in. long. Wt. 12 oz 98¢

24 ROCKET SHIP shoots harmless sparks; runs ahead or in circles; "rat-a-tats". Lithographed steel Spring motor.
48 T 2908-12 in. long. Wt. 1 lb. 3 oz. 1.79

25 DICK TRACY SIREN SQUAD CAR WITH ELECTRIC FLASHER. Adjustable front wheels. Light operates from flashlight battery (not incl., order 86 W 3259X this page) Lithographed metal.
48 T 2842 11¼ in. long. Spring motor. Ship. wt. 1 lb. 8 oz... .1.89

26 SULKY RACER. Gaited horse actually trots. Spring motor
48 T 2912—All plastic. 8¾ in. long overall. Ship. wt. 12 oz..1.79

27 MINIATURE PLASTIC TRAIN SET. Locomotive with strong clock-spring motor; Tender, 3 cars that couple easily by hand
48 T 2918—5-unit Train, 20 in. long overall. Ship. wt. 8 oz.....89¢

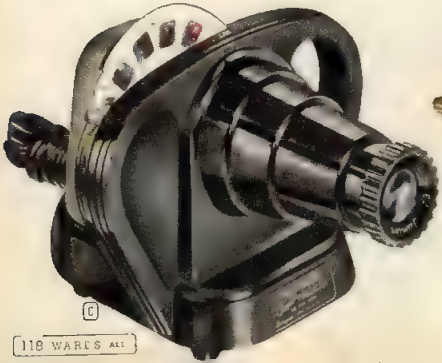
28 "IOE COLLEGE" AUTO runs all ways, rears back. Spring motor.
48 T 2866—5¼ in. long; lithographed metal. Ship. wt. 10 oz.87¢

29 METAL MYSTERY KITTY. Press her tail and away she goes. Spring motor
48 T 2835 8½ in. long. Ship wt. 12 oz ...97¢

30 DIVING SUBMARINE. Dives 2 to 5 ft. (rudder adjusts), runs under water; rises. Lithographed metal; strong spring motor.
48 T 2814 -13 in. long Wt. 1 lb. 8 oz.....1.39

31 HOOK AND LADDER TRUCK. Loud siren; swivel ladder extends 9 to 21 in. Red plastic truck, rubber tires. Friction motor.
48 T 2920—15½-in. Truck. Wt. 1 lb. 12 oz. 1.59

B
A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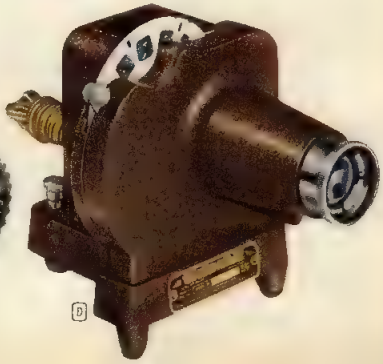

D

Sawyer View-Master

THRILLING THREE DIMENSIONAL PICTURES IN FULL COLOR

When you look at View-Master Pictures through the View-Master Stereoscope, it's like stepping through Alice's looking glass into a new world, but a real world. Every object in every picture has the fullness, the depth, the roundness of reality—you feel confident you can touch and even reach around and behind trees and rocks.

You sit at home and get the very real illusion you are visiting romantic Hawaii, enjoying the view from the rim of the Grand Canyon, or awakening to a magic fairyland come to life—all in full natural color.

The pictures are brilliant Kodachromes. They come in reels of seven full-color, three-dimensional scenes—actually there are 14 pictures to each reel because each eye sees its own picture as in real life. There are more than 300 subjects for you to choose from, and they range from travel pictures and wild animals to dramatizations of fairy tales and bible stories—for both children and adults.

A AND **B** VIEW MASTER OUTFIT. Sturdy black plastic stereoscope (A) with changing lever, lighting unit (B) for even, diffused light for your pictures (order batteries separately), complete list of View-Master reels, cardboard storage box for 12 reels and choice 3 View-Master reels *Postpaid*

67 TN 3352 *State picture reels wanted by Title and Number*.....Outfit $5.00

67 TN 3417—Deluxe Outfit. Same as above but with plastic library box described at right instead of cardboard storage box. *State reels wanted by title and number*. . .$6.85

67 WN 3335—Stereoscope and three reels. *State reels by title and number*.....$3.00

(A) 67 WN 3332 Stereoscope only. . . 2.00

(B) 67 WN 3412—Lighting unit only. . 2.00

67 W 3228—Batteries. Ship. wt. 8 oz. 2 for 30c

C VIEW-MASTER JR PROJECTOR. Low-priced metal and plastic projector for View-Master reels. No three-dimension effect, but throws brilliant images up to 18 inches square. F/3 lens; automatic reel advance.

67 WN 3333 -*Postpaid*.....$9.95

67 TN 3413 -Replacement bulb. *Postpaid* 70c

D VIEW-MASTER SENIOR PROJECTOR. Precision-made all-metal instrument for non-stereo projection (no third dimension) of View-Master reels only. Coated f/3 lens throws image up to 40 in. square with full color and detail. Built-in pointer can project shadow to pick out any part of picture. Titles reflect in side panel for identification. Flick of lever changes picture. No Credit Charge on this item

67 TN 3419—*Postpaid*.....$39.50

67 TN 3421—Replacement bulb. *Postpaid* 1.05

VIEW-MASTER LIBRARY BOX (shown below). Handsome maroon and ivory colored plastic box; holds Stereoscope and up to 100 reels.

67 TN 3334—Box only. *Postpaid*..... $1.65

67 WN 3336 –View-Master Reels—*Postpaid. State Catalog Number, title, and reel number.* Six Reels for $2.00

RUDOLPH, THE RED NOSED REIN DEER. Carved scenes of Rudolph's triumph. With printed story.

FT 2S Rudolph

CHRISTMAS STORY. Carved settings after famous paintings.

XM 1 Mary and Joseph
XM 2 The Shepherds
XM-3 The Wise Men

FAIRY TALES Molded and carved figures. With printed story.

FT-1 Little Red Riding Hood
FT 2 Hansel and Gretel
FT 3 Jack and the Beanstalk
FT 4 Snow White and 7 Dwarfs
FT 5 Cinderella
FT 6 Goldilocks and Three Bears
FT 7 The Three Little Pigs
FT-8 Little Black Sambo
FT 9 The Ugly Duckling
FT 50A Aladdin and Lamp I
FT 50B Aladdin and Lamp II
FT 51 The Magic Carpet

SAM SAWYER: The blonde-haired apple - cheeked boy adventurer. With printed story.

SAM 1 Sam Flies to the Moon
SAM 2 Sam Finds a Treasure
SAM 3 Sam in the Land of Giants
SAM-4 Sam in Darkest Africa
SAM 5 Sam in the Land of Ice
SAM-6 Sam and the Flying Saucer Pirates.

CARTOON CHARACTERS. Molded figures of animated movie people.

800 Buggs Bunny and Elmer Fudd in The Hunter
810 Tom and Jerry in Cat Trap
820 Woody Woodpecker in The Pony Express Ride

ADVENTURE. Exciting Kodachromes of reel western scenes and animals.

975 Texan Rescues Chair (with printed story)
945 Roy Rogers and Trigger
950 Gene Autry and Champion
955 Hopalong Cassidy (Bill Boyd)
960 Cisco Kid (Duncan Renaldo) and Pancho (Leo Carillo)
940 The Rodeo, U. S. A.
942 Cattle Roundup & Branding
961 Wild Animals in Natural Habitat (Africa)
910 African Animals in Zoo I
911 African Animals in Zoo II
912 Animals of India in Zoo
913 N American Animals in Zoo
914 Animals of South America in Zoo
925 Performing Elephants
926 Performing Chimpanzees
927 Performing Lions

THE PASSION PLAY. Scenes of the presentation at Oberammergau Germany in 1950. With printed story.

1550 Tableaux
1551 Part I
1552 Part II

PEOPLES OF THE WORLD

175 Navajo Indians, New Mexico
286 Indian Tribal Ceremonies, Gallup, New Mexico
309 Eskimos, Alaska
81 Hula Dancers I, Hawaii
82 Hula Dancers II, Hawaii
523 Mexican Bullfight
5020 Kangaroo Hunt with Aborigines of Australia
5261 Maoris of New Zealand
4825 Siamese Dance Drama, Siam
3029 Natives of Zululand

HISTORIC PLACES

298 Abe Lincoln's New Salem Restored, Illinois
76 Washington's Mount Vernon
139 Annapolis Naval Academy
360 Historic Charleston, S.C.
538 Lookout Mountain, Tenn.
351 Historic Pennsylvania and Valley Forge
86 F. D. Roosevelt's Home at Hyde Park, New York

FOREIGN TRAVELOGS

5001 Australia, Sydney
5010 Australia, Barrier Reef
597 Bahamas, Nassau
5000 Bermuda, Island of
970 Brazil, Rio de Janeiro I
4810 China, Hong Kong Colony
572 Cuba, Havana I
3701 Egypt, Cairo
3303 Egypt, Pyramids & Sphynx
1001 England, London I
1013 England, Windsor Castle
1025 England, Stratford-on Avon
1401 France, Paris I
1402 France, Paris II
1410 France, Palace of Versailles
551 Guatemala, Guatemala City
4305 India, Calcutta
4307 India, New Delhi
4300 India, Taj Mahal & Red Fort
1301 Ireland, Killarney
1302 Ireland, Tipperary
4000 Israel, Jerusalem, The Holy City
581 Jamaica, Kingston
4121 Lebanon, Scenes of
511 Mexico, Acapulco
5301 New Zealand, Southern Alps
1801 Italy, Rome
1804 Italy, The Roman Forum
1805 Italy, Rome, Holy Year, 1950
1808 Italy, Florence
1512 Italy Naples
550 Panama, Panama City
5600 Philippines, Manila
4820 Siam Buddhist Temples of Bangkok
3001 South Africa Cape Town
3100 South Africa, Victoria Falls
2001 Switzerland, The Matterhorn and Zermatt
4111 Syria, Scenes of Damascus
4055 Transjordan, Scenes of
2721 Vatican State, St. Peter's
2726 Vatican, Holy Year, 1950

AMERICAN TRAVELOGS

178 Arizona Desert Scenes
219 California, Hollywood
220 California—Hollywood—Homes of Movie Stars
221 California, Los Angeles
195 California, San Francisco
201 California, Catalina Island
208 California Cactus in Bloom
290 Calif., Desert Wild Flowers
291 California Wild Flowers
33 Colorado, Park of Red Rocks
271 Connecticut, Rural Scenes
156 Florida, Cypress Gardens
165 Florida, Miami
163 Florida, Miami Beach
165 Florida Marineland
182 Florida, U.S. Highway I—Daytona to Key West
160 Florida—St. Augustine
161 Florida—Silver Springs
208 Idaho Sun Valley—Winter
333 Illinois, Chicago
385 Kansas, "The Wheat State"
681 Louisiana, New Orleans
332 Louisiana, The Mardi Gras New Orleans
273 Maine Seacoast
278 Massachusetts, Boston
276 Massachusetts, Cape Cod
248 Michigan, Upper Peninsula
334 Mississippi, Natchez, "The Old South"
372 Missouri, "The Ozarks"
205 Minnesota, Duluth and the North Shore Drive
8 Nevada, Hoover (Boulder) Dam—Powerhouse Tour
11 Nevada, Hoover (Boulder) Dam
277 New England Autumn Foliage
365 New Hampshire & Mountains
154 New Jersey, Atlantic City
158 New York City I
157 New York City II
158 New York City III, Rockefeller Center, Empire State
370 Oklahoma, "Sooner State"
151 Oregon, Columbia River Hwy.
98 Oregon & Scenic Coast
349 Pennsylvania, Amish Country
350 Pennsylvania, Philadelphia
228 Texas, San Antonio
121 Utah, Salt Lake City
123 Utah, Mormon Temple, Tabernacle Grounds, Salt Lake
272 Vermont, Green Mountains
196 Washington, Grand Coulee
136 Washington, D.C. Government Buildings
137 Washington, D.C. Scenes
307 Alaska, Ketchikan Vicinity
305 Alaska, Sitka
388 Canadian Gaspe Peninsula
378 Canada, Ottawa, Ontario
363 Canada, Quebec City I
379 Canada, Toronto & Vicinity
311 Canada, Vancouver, B. C.
63 Hawaii Honolulu
65 Hawaii, Island of Hawaii
64 Hawaii, Island of Oahu
88 Hawaiian Flowers I
89 Hawaiian Flowers II

NATIONAL PARKS, MONUMENTS

257 Acadia National Park, Maine
319 Banff & Lake Louise, Alberta
203 Black Hills of South Dakota
16 Bryce Canyon N.P. I, Utah
17 Bryce Canyon N.P. II, Utah
251 Carlsbad Caverns National Park I, New Mexico
252 Carlsbad Caverns N.P. II
253 Carlsbad Caverns N.P. III
21 Crater Lake N.P. I, Oregon
234 Cave of the Winds, Colorado
124 Dells of Wisconsin
246 Denver and Denver Mountain Parks, Colorado
51 Garden of the Gods, Colorado
46 Glacier Nat'l Pk. I, Montana
26 Grand Canyon National Park, South Rim I, Arizona
27 Grand Canyon, South Rim II
30 Grand Canyon National Park —Bright Angel Trail, Ariz.
31 Grand Canyon, Kaibab Trail
32 Grand Canyon, Havasu, Ariz.
36 Grand Canyon, North Rim
41 Grand Teton N.P. I, Wyoming
336 Great Smoky Mountains Nat'l Park Tenn. & N. Carolina
337 Great Smoky Mts., N.P. II
299 Hot Springs Nat'l Park, Ark.
315 Jasper Nat. Park I, Alberta
118 King's Canyon, California
183 Lake Tahoe, California
339 Mammoth Cave N.P. I, Ky.
226 Mesa Verde N.P. I, Colorado
212 Mount Hood, Oregon
256 Mt. Lassen Volcanic N.P
306 Mt. McKinley N.P., Alaska
6 Niagara Falls, New York
62 Niagara Falls in Winter
375 Niagara Falls, Ontario
31 Oregon Caves Monument I
177 Painted Desert, Arizona
176 Petrified Forest, Arizona
245 Pike's Peak, Colorado
105 Rainier N.P.—Glaciers, Wash.
106 Rainier N.P.—Sunrise Side
111 Redwood Highway I, Calif.
112 Redwood Highway II, Calif.
101 Rocky Mountain Nat'l Park Trail Ridge Road, Colo
238 Royal Gorge, Colorado
261 Shenandoah Nat'l Pk., Va.
131 Yosemite N.P. I, Calif.
132 Yosemite N.P. II, Calif.
128 Yellowstone Nat'l Park, Grand Canyon Area
127 Yellowstone—Mammoth Area
128 Yellowstone—Old Faithful
129 Yellowstone—Lower Basin

Distinguished Watches for Women

A—1W814 G
Twain! Romantic 10k yellow rolled gold plate stainless steel back, heavy crystal case with gold-filled expansion bracelet designed with hearts to match heart design on the case. Dependable 17 jewel ADMIRAL movement.
Retail $39.50 — Each $23.25

A—1W815 G
Twain! Same as above with sturdy 7 jewel ADMIRAL movement.
Retail $30.50 — Each $18.00

B—1W816 G
Unique and luxurious is this polished 10k yellow rolled gold plate, stainless steel back, domed crystal case. Combination expansion bracelet is gold-filled. Famous 17 jewel ADMIRAL movement.
Retail $39.50 — Each $23.25

C 1W817 G
Attractively styled modern 10k yellow rolled gold plate domed crystal case. Matching gold filled combination bracelet. 17 jewel ADMIRAL movement.
Retail $39.50 — Each $23.25

C—1W818 G
Same as above, with reliable 7 jewel ADMIRAL movement and silk cord.
Retail $26.00 — Each $15.25

D—1W819 G
2 precious diamonds set in rare 10k rolled gold plated case with matching gold filled adjustable link bracelet. Accurate 17 jewel ADMIRAL movement.
Retail $57.50 — Each $33.50

D—1W820 G
Same as above, but in 10k white rolled gold rhodium plated case.
Retail $57.50 — Each $33.50

E—1W821 G
Dependable yet glamourous is this 10k yellow rolled gold plate, steel back Nurses sweep second watch. Tailored gold-filled combination expansion bracelet. Electronically tested 17 jewel ADMIRAL movement.
Retail $42.50 — Each $23.75

E—1W822 G
Same as above, with 7 jewel ADMIRAL movement and silk cord.
Retail $28.00 — Each $16.25

SINCE 1874
Admiral Watches
TIMED IN U. S. A.

Smart Modern Watches for Men

F—1W823 G
PRESENTATION! Rugged, domed crystal 14k yellow gold case with matching combination expansion band is preferred for gift or presentation. 17 jewel ADMIRAL movement for unrivaled accuracy.
Retail $80.00 — Each $47.25

G—1W824 G
Conservative! Handsome yellow rolled gold plate, stainless steel back case with sturdy thick crystal. Combination gold filled expansion bracelet insures comfort. Famous 17 jewel ADMIRAL movement
Retail $45.00 — Each $26.25

H—1W825 G
AUTOMATIC-SELF WINDER: This 10k gold filled top steel back water-resistant watch is ideal for dress and rugged wear. Easily readable sweep second hand, non-breakable crystal and comfortable gold filled expansion band. 17 jewel Anti-magnetic and Shock-proof ADMIRAL movement.
Retail $60.00 — Each $35.25

I 1W826 G
Dependable is this 10k yellow rolled gold plate, stainless steel back case with matching gold-filled link bracelet. A domed crystal and double safety clasp on bracelet complete this 17 jewel ADMIRAL favorite
Retail $39.50 — Each $23.25

J—1W827 G
Same as above with sturdy 7 jewel ADMIRAL movement and leather strap.
Retail $26.00 — Each $15.25

K—1W828 G
SPORTSMEN: this rugged Chrome and Steel water-resistance watch with sweep radium hands and dial is sure-fire and dependable. Has a stainless steel expansion band and non-breakable crystal plus famous 17 jewel ADMIRAL Shockproof and Anti-magnetic movement.
Retail $42.50 — Each $24.75

SINCE 1874

Admiral Watches

TIMED IN U. S. A.

*** FULLY GUARANTEED** *** BEAUTIFULLY GIFT BOXED**

*** NATIONALLY ADVERTISED** *** ELECTRONICALLY TIMED**

SCHWOB WATCH CO'S finest quality movement and cases for the first time since before the war—now available in the famous **ADMIRAL** watch.

A—1W800 G
Modern styled mirror-lapped 14k yellow gold domed crystal case with smart round snake chain bracelet. Famous 17 jewel ADMIRAL movement for lasting quality.
Retail $65.00 Each $37.25

B—1W801 G
Dame! 20 stately diamonds in regal platinum mounting with flexible ends. Matching gold-filled snake chain bracelet with double clasp for safety. Tested 17 jewel ADMIRAL movement.
Retail $425.00 Each $250.00

B—1W802 G
Dame! Same as above in 14k white gold.
Retail $295.00 Each $170.00

C—1W803 G
An exquisite 14k yellow gold modern thick crystal dress watch with dainty gold-filled link bracelet. A 17 jewel ADMIRAL movement for accurate time.
Retail $65.00 Each $37.25

D—1W804 G
Aristocrats! 14 matched diamonds shimmering in curved 14k white gold domed crystal setting lake evening stars. Lustrous single gold-filled snake bracelet. Timed 17 jewel ADMIRAL movement.
Retail $210 Each $120.50

E—1W985 G
Tailored 14k yellow gold domed crystal watch is the utmost in taste and refinement. Gold-filled expansion bracelet for an exact fit. A quality 17 jewel ADMIRAL movement insures timing.
Retail $65.00 Each $37.25

F—1W806 G
Sophisticated! 2 gleaming diamonds set in rare 14k gold case. Gold filled snake chain bracelet. 17 jewel ADMIRAL movement for confident timing.
Retail $80.00 Each $45.00

F—1W897 G
Sophisticated! Same as above in 14k white gold
Retail $80.00 Each $45.00

G—1W808 G
Conservative beauty! Traditional square 14k yellow gold case with fashionable domed crystal. Debonair gold-filled link bracelet and 17 jewel longer-lasting ADMIRAL movement makes this style a traditional favorite.
Retail $59.00 Each $39.50

G—1W809 G
Conservative beauty! Same as above in 10k rolled gold plate.
Retail $39.50 Each $23.25

H 1W810 G
Custom tailored! 6 formal diamonds gracefully separated by modern domed crystal in 14k white gold case. Matching adjustable double snake bracelet. Tested 17 jewel ADMIRAL movement.
Retail $115.00 Each $68 50

I—1W811 G
Style-Appeal! 14k yellow gold classic square, domed crystal case. Easily-read dial and single adjustable snake bracelet makes this ideal for dress or informal wear. Internationally known 17 jewel ADMIRAL movement.
Retail $50.00 Each $29.50

I 1W812 G
Style appeal. Same as above in 10k rolled gold plate
Retail $39.50 Each $23.25

K—1W813 G
Women of fashion select this 14k white gold ensemble set with 10 flashing diamonds. It's tailored with double safety gold filled snake bracelet for milady's wardrobe. Nationally advertised 17 jewel ADMIRAL Movement.
Retail $165.00 Each $95.00

ADMIRAL watches are set with Genuine Graded Diamonds

Suggested retail prices include Federal tax. Watches illustrated are actual size.

Prices subject to change without notice. Diamonds slightly enlarged to show detail.

A·S·R

Ascot lighter

..the world's most beautiful lighters!

Amazing

'YEAR-LONG' FLINT IN NEW

Wind-Proof

750W—A.S.R. ASCOT WIND-PROOF LIGHTER
Wind-proof. Built-in chimney. Rugged. Smartly designed. "Light-switch" action. Extra fuel capacity. *With exclusive Year-Long flint!* No Fed. Tax. Retail **7.50**
Dealer's Cost ea. $4.50

'YEAR-LONG' FLINT
It's sensational! 5 times the length of regular flints (see sketch). Actually lasts a full year with normal use. With propel and repel action for easy adjustment. No other like it. Only in Wind-Proof Lighter.

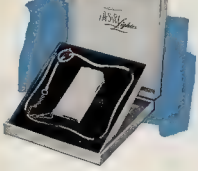
L-26
Printed in U.S.A.—50

595C—A.S.R. ASCOT LIGHTER
Vertical design. Sturdy chrome finish. "Light-switch" action. Easy to fill. No Fed. Tax. Retail **5.95**
Dealer's Cost ea. $3.57

595CM—A.S.R. ASCOT LIGHTER
Midget model for the lady. No Fed. Tax. Retail **5.95**
Dealer's Cost ea. $3.57

900A—A.S.R. ASCOT LIGHTER
Choicest brown alligator. Softly padded. Really beautiful. Unusual. No Fed. Tax. Retail **9.00**
Dealer's Cost ea. $5.40

900AM—A.S.R. ASCOT LIGHTER
Alligator lighter in Midget model. No Fed. Tax. Retail **9.00**
Dealer's Cost ea. $5.40

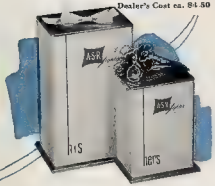


CHAIN LIGHTING

1000K—A.S.R. ASCOT KEY CHAIN LIGHTER Pocket lighter with swivelled flexible 18" chain. Lighter and chain in Rhodium finish. New. For sports wear, outdoor use. In rich presentation box. No Fed. Tax. Retail **10.00**
Dealer's Cost ea. $6.00

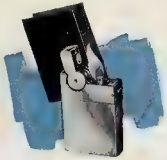
750L—A.S.R. ASCOT LIGHTER
Neat line pattern. Precision made. Tarnish-resistant Rhodium finish. No Fed. Tax. Retail **7.50**
Dealer's Cost ea. $4.50

750M—A.S.R. ASCOT LIGHTER
Midget model in same design and finish. No Fed. Tax. Retail **7.50**
Dealer's Cost ea. $4.50



BRIGHT GIFT IDEA

Delightful way to give a pair of matching lighters to married friends, sweethearts, for you and your husband or wife, week-end hosts. The "His and Her" gift box furnished *at no charge* when you purchase a pair of regular Pocket and matching Midget Lighters as shown above. Unique, lovely gift idea.



SMART 'VOGUE'

1000GM—A.S.R. ASCOT "VOGUE" LIGHTER
Gold plated Midget lighter. With stunning red or green satin-lined calfskin slip-case. Selected by Vogue Magazine as one of 50 best gifts of the year. Add Fed. Tax. Retail **10.00**
Dealer's Cost ea. $6.00

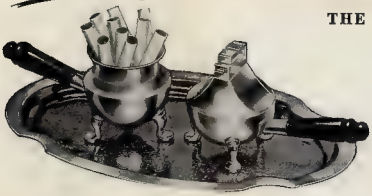
PRECISION A·S·R PRODUCTS

Lighter Division A·S·R CORP., Brooklyn I, N. Y.

A·S·R Ascot lighter

..the world's most beautiful lighters!

THE STRIKING *Heritage*



RHODIUM, COPPER OR BRASS

2500HC—A.S.R. ASCOT "HERITAGE" ENSEMBLE
3-piece set. Includes "Heritage" Lighter and Cigaret Server with ebony handles, and companion Tray. Rhodium, copper or brass finish. No Fed. Tax.
Retail **25.00**
Dealer's Cost ea. $12.00

1250H—A.S.R. ASCOT "HERITAGE" LIGHTER
Rhodium, copper or brass. No Fed. Tax.
Retail **12.50**
Dealer's Cost ea. $7.50

THE PAGODA

1500CC—A.S.R. ASCOT "PAGODA" SET
Styled in oriental beauty. Set includes "Pagoda" lighter, four golden ash trays, compact utility ebony stand. The lighter is gold plated with rich Lucite body in ebony, Chinese red or jade. No Fed. Tax.
Retail **15.00**
Dealer's Cost ea. $9.00

1250C—A.S.R. ASCOT "PAGODA" LIGHTER
No Fed. Tax.
Retail **12.50**
Dealer's Cost ea. $7.50

THE LOVELY *Classic*

2500TC—A.S.R. ASCOT "CLASSIC" LIGHTER SET
Grecian in design. Graceful. Includes "Classic" Lighter, Cigaret Urn, companion Tray. *Rhodium finish only.* No Fed. Tax.
Retail **25.00**
Dealer's Cost ea. $15.00

1250TM—A.S.R. ASCOT "CLASSIC" LIGHTER
Choice of Rhodium, copper or brass finish. No Fed. Tax. Retail **12.50**
Dealer's Cost ea. $7.50

The New Exciting Game That Proves Saving is Fun!
BASKET BALL BUBBLE GUM BANK.....
IN goes the coin for future savings
OUT comes bubble gum by rear chute!
FREE Newspaper Mats and Glossies! ORDER TODAY!
STORE NAME
A Fascinating Action Toy!
BASKET BALL BUBBLE GUM BANK...

AN ACTION TOY...
A USEFUL BANK...
A REAL HOME VENDING MACHINE

...AND A SALES SENSATION!

We Guarantee

The gum furnished with the Basket Ball Bubble Gum Bank is genuine Leaf Rain-Blo Ball Gum.

To insure best operation, continue using Leaf's official Basket Ball Bubble Gum Bank refills available at all leading stores.

BASKET BALL BUBBLE GUM BANK.....

A new exciting toy made of durable colored plastic. Simple to operate. Metal Key unlocks back plate for easy refilling or to remove pennies, nickels and dimes.

Basket Ball Bubble Gum Bank is the outstanding toy of all time. Order now for prompt delivery.

NO. 512 BASKET BALL BUBBLE GUM BANK

Individually packed in attractive carton including Key and 50 genuine Leaf Rain-Blo Gum Balls. Packed 24 Banks to shipping container. (Shipping weight 28½ lbs.)

OFFICIAL REFILLS FOR THE BASKET BALL BUBBLE GUM BANK

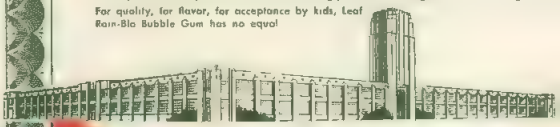
NO. 513 LEAF OFFICIAL REFILL BOX with cellophane window contains 60 genuine Rain-Blo Bubble Gum Balls. Designed to retail at 25c per box. Packed 96 boxes to shipping container. (Shipping weight 29½ lbs.)

LEAF RAIN-BLO...

Largest Selling Ball Gum in America

For a quarter century Leaf has been the leading producer of ball gum for the vending trade

For quality, for flavor, for acceptance by kids, Leaf Rain-Blo Bubble Gum has no equal



LEAF GUM COMPANY
DIVISION OF LEAF BRANDS, INC
1155 N. CICERO, CHICAGO, U.S.A.
Cable Address Leafbrands

A New, Exciting Game!

Copyright 1950,
Patents Pending

3-Way sales sensation!

BASKET BALL BUBBLE GUM BANK

1. **An Exciting Game of Skill!**
2. **A Toy Bank, to Encourage Children to Save!**
3. **A Real Bubble Gum Home Vending Machine!**

in durable colored plastic with 50 balls of genuine Leaf Rain-Blo Bubble Gum.

Extra Sales, Extra Profits
with Leaf Official Refills! Box of 60 Balls, Suggested Retail Price 25c

Here's a new action toy with Super SALES APPEAL! It's irresistible! It's unequalled by any toy or candy novelty! The Basket Ball Bubble Gum Bank appeals to every basic interest of kids . . . interest in sports, in games of skill, in competition.

Simple to operate . . . insert penny, nickel or dime which releases ball above shooting spring. Then, shoot ball in direction of basket. Score a hit and out comes gum. Ball will return until basket is scored.

Created, Designed, Exclusively Manufactured by

LEAF GUM COMPANY • 1155 N. CICERO AVE.

A Division of Leaf Brands, Inc., Chicago, U.S.A.

For over 25 years the leading producer of ball gum for the vending trade.

SEE OTHER SIDE FOR MORE ABOUT THIS NEW EXCITING GAME

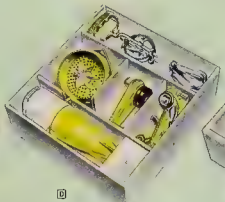
Consumer Accepted DAZEY KITCHEN HELPS

A

C

E

B


D

F

ONE DAZEY BRACKET ON THE WALL IS HANDY "CAUSE IT FITS THEM ALL"

A SHOWER OF DAZEYS... A smart gift package of the Dazey Deluxe Can Opener and Dazey Sharpit. All fit the famous Dazey wall bracket.

		RETAIL	DEALERS PRICE EA.
536A 19	Enamel with Chrome Trim (Available in Red, White, Yellow, Green or Black).	$7.95	$5.30

B CORSAGE OF DAZEYS... A practical, useful gift, contains the Dazey Deluxe Can Opener, Dazey Juicer and Dazey Sharpit. They all fit the famous Dazey wall bracket.

		RETAIL	DEALERS PRICE EA.
536A 20	Enamel with Chrome Trim (Available in Red, White, Yellow, Green or Black).	$11.95	$7.95

C BOUQUET OF DAZEYS... The Dazey Blend-R-Mix, Dazey Sharpit, Dazey Juicer and Dazey Deluxe Can Opener beautifully gift-packaged

		RETAIL	DEALERS PRICE EA.
536A 21	Enamel with Chrome Trim (Available in Red, White, Yellow, Green or Black).	$16.95	$11.30

D GARDEN OF DAZEYS... The most complete Dazey gift assortment—Dazey Blend-R-Mix, Dazey Triple Ice Crusher, Dazey Juicer, Dazey Deluxe Can Opener and Dazey Sharpit

		RETAIL	DEALERS PRICE EA.
536A 22	Enamel with Chrome Trim (Available in Red, White, Yellow, Green or Black.)	$24.95	$16.65
536A 23	All Chrome	29.95	19.95

E NUT CRACKER SUITE... The Dazey Nut Cracker Suite combines the all-chrome finished Dazey Crackit and a beautifully, highly polished maple bowl.

		RETAIL	DEALERS PRICE EA.
536A 24	All Chrome	$12.95	$8.65

F COCKTAIL HOUR... The Dazey Cocktail Hour is the ever-popular Dazey Triple Ice Crusher with mirror chrome cocktail shaker cap and new transparent ice cup.

		RETAIL	DEALERS PRICE EA.
536A 25	Enamel Body (Available in Red, Yellow, Green or Black)	$9.95	$6.65
536A 26	Chrome Body (Available in Red, Yellow, Green or Black).	11.95	7.95

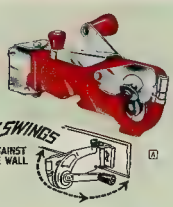
Guaranteed by Good Housekeeping

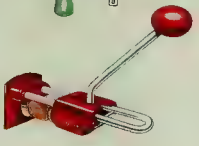
All Dazey Products Carry the Good Housekeeping Seal of Approval

Be sure it's a DAZEY

Retail prices on Dazey products are fair traded in all states having fair trade law.

Consumer Accepted DAZEY KITCHEN HELPS





ONE DAZEY BRACKET ON THE WALL IS HANDY *"CAUSE IT FITS THEM ALL"*

A CAN OPENER—DAZEY... World's finest Can Opener. Cuts out entire top of round, square or oval cans. Lifts out of bracket or swings flat against wall.

		RETAIL	DEALERS PRICE EA.
536A 1	Cadmium Finish	$2.95	$1.95
536A 2	Enamel with Chrome Trim (Available in Red, White, Yellow, Green or Black).	3.95	2.65
536A 3	All Chrome	4.95	3.30

B JUICER—DAZEY... Juices — strains seeds and pith with a single action. Bowl holds a pint of juice. Made of strong, light, satin-smooth aluminum.

		RETAIL	DEALERS PRICE EA.
536A 4	Juicer (enameled) (Available in Red, White, Yellow, Green or Black).	$4.95	$3.30
536A 5	All Polished Aluminum	5.95	3.95

C ICE CRUSHER—DAZEY... Crushes ice... fine... medium... coarse to just right size for chilled fruit servings or refreshing beverages. Stainless steel parts, rustproof.

		RETAIL	DEALERS PRICE EA.
536A 6	Enameled Body (Available in Red, Yellow, Green or Black).	$7.95	$5.30
536A 7	All Chrome Body	9.95	6.65

D TWIN SHARPIT—DAZEY... Two twin sets of sharpening wheels, one set for sharpening—one set for honing. Sharpens scissors, steel and stainless steel knives, etc., with surgical keenness.

		RETAIL	DEALERS PRICE EA.
536A 8	Cadmium Finish	$3.95	$2.65
536A 9	Enamel with Chrome Trim (Available in Red, White, Yellow, Green or Black).	4.95	3.30
536A 10	All Chrome	5.95	3.95

E BLEND-R-MIX—DAZEY... Blends—Whips—Mixes... Mixes anything mixable. Chrome and stainless steel. Enameled zinc, die cast, adjustable handle for right or left-handed use.

		RETAIL	DEALERS PRICE EA.
536A 11	Blend-R-Mix (Available in Red, Yellow, Green or Black).	$4.95	$3.30

F OPN-SEAL—DAZEY... Removes or seals all screw-type jar lids and screw-type bottle caps, also removes vacuum-seal caps, lids, and beverage bottle tops, easily, quickly.

		RETAIL	DEALERS PRICE EA.
536A 12	Cadmium Finish	$3.95	$2.65
536A 13	Enamel with Chrome Trim (Available in Red, White, Yellow, Green or Black).	4.95	3.30
536A 14	All Chrome	5.95	3.95

G CRACKIT—DAZEY... Makes nut cracking a simple, easy operation. Cracks ends, splits nut shell lengthwise—meats come out whole and uncrushed.

		RETAIL	DEALERS PRICE EA.
536A 15	Cadmium Finish	$3.95	$2.65
536A 16	Enamel with Chrome Trim (Available in Red, White, Yellow, Green or Black).	4.95	3.30
536A 17	All Chrome	5.95	3.95

H DISPENSIT—DAZEY... Just one flip of the handle forward or backward and it will dispense each time the correct measure of ground coffee for one cup.

		RETAIL	DEALERS PRICE EA.
536A 18	Dispensit (Available in Red, Yellow, Green or Black)	$4.95	$3.30

Retail prices on Dazey products are fair traded in all states having fair trade law.

IT'S AS EASY AS "A-B-C" TO SELL

NOW- 3 COMPLETE LINES of 10¢ KITS

COMET

COMET

MODEL AIRPLANE KITS

Flying Models

The "A" LINE

Comet has packed so much value into these kits, it's no wonder they sell so fast! 8 different models, each a favorite with model-builders, attractively boxed! 12" wingspan

10¢

SEE THESE COMET LINES AT THE TOY FAIR at COMET HDQTRS HOTEL NEW YORKER—ROOM 604

Solid Models

The "B" LINE

The youngster who wants to build solid, rather than flying models, finds these Comet kits just to his taste 8 different models, in eye-catching boxes, kits are complete, and top values at 10c Wingspan 6"

10¢

Pre-Fab Flying Models

The "C" LINE

STRUCT-O-SPEED

E-Z TO BUILD

Newest of Comet's 10c lines — featuring Comet's famous "Struct-O-Speed" design, simplest to put together—every part completely pre-fabricated! Complete kits in 3-color individual boxes, 6 different models—will move fast in any type of store. Wingspan approx 9¾"

10¢

—PLUS TWO GREAT LINES OF 25¢ FLYING MODELS!

The "E" LINE FLYING MODELS

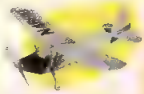
Another fast-moving Comet line! Big wingspan flying models, in unusually complete kits, at only 25c! 16 different models give you maximum sales-appeal! Wingspans 18" to 32"

25¢

The "F" LINE FLYING MODELS

STRUCT-O-SPEED E-Z TO BUILD

Comet's 25c "Struct O-Speed" models are established favorites Every part completely pre-fabricated 12 different models The kind of value only Comet can give! Wingspans 13" to 15"



25¢

TURN THIS PAGE

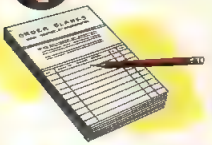
COMET MODEL HOBBYCRAFT, INC.

129 WEST 29th STREET • CHICAGO 16, ILL.

COMET ASSORTMENTS — the MODERN WAY TO STOCK, SELL and SHIP MODEL PLANES!

COMET

1 YOU ORDER BY ASSORTMENT



Comet's assortments simplify your ordering. Each case contains four complete assortments —ready to re-ship to your customers — no need to make up assortments from stock. The Comet way minimizes your ordering and stock problems, saves time and space!

2 YOU SELL BY ASSORTMENT

Your customers find it just as easy to order by assortment as you do—and the easier you can sell, the **more** you can sell! Dealers like to order by this simple, modern assortment method. They get just what they want, with a minimum of time and effort.

3 YOU SHIP FROM STOCK BY ASSORTMENT

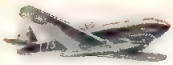
Here's where the Comet assortment system really goes to bat for you! These special, easy to handle packages come off your shelves and into shipping cartons in no time at all! You save storage space and handling time — and that means lower overhead, higher profits! For complete assortments of the newest, fastest-selling models, maximum consumer acceptance and greatest convenience in ordering, handling and stocking you can't beat Comet assortments!

— and HERE are the ASSORTMENTS...

A 10c FLYING MODELS

'A' ASSORTMENT 10c Flying Model Airplanes 8 different fast selling models, 36 assorted per package 4 packages to shipping carton Wt per carton, 16 lbs

E 25c FLYING MODELS

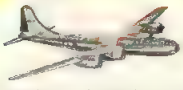


E ASSORTMENT 25c Flying Models. 16 different fas. selling models. 18 assorted per package 4 packages to shipping carton Wt. 17 lbs.

L 50c FLYING MODELS

'L' ASSORTMENT 50c Flying Models. 12 different fast-selling models, 12 assorted per package. 4 packages to shipping carton. Wt per carton, 16 lbs

B 10c SOLID MODELS



B ASSORTMENT 10c Solid Models 9 different fast-selling kits. 36 assorted per package 4 packages to shipping carton Wt per carton 13 lbs

F 25c FLYING MODELS

'F' ASSORTMENT 25c Flying Models 12 different fast-selling models, every part completely pre-fabricated, 18 assorted per pkg 4 packages to shipping carton Wt per carton 14 lbs.

M $1 FLYING MODELS

'M' ASSORTMENT $1 Flying Models featuring Comet's popular Struct-O-Speed construction, every part completely pre-fabricated 3 great models—5 assorted per package 4 packages to shipping carton Wt per carton 17 lbs

C 10c FLYING MODELS

'C' ASSORTMENT 10c Struct-O-Speed Models every part completely pre fabricated 6 different models, 36 assorted per package, 4 packages to shipping carton Wt per carton 14 lbs

S 25c SOLID MODELS

'S' ASSORTMENT 25c Solid Models 6 different fast-selling models, 12 assorted per package 4 packages to shipping carton Wt per carton 12 lbs

P $1 FLYING MODELS

'P' ASSORTMENT $1 Flying Models. 11 different fast-selling models 6 assorted per package 4 packages to shipping carton Wt 19 lbs

COMET CEMENT AND COMET DOPE - TWO GREAT VALUES AT 10¢; NEW COMET CEMENT FOR PLASTICS 10¢

COMET MODEL HOBBYCRAFT, INC.

400DB990 10K Gold, suitable for engraving **$18.00**
401DB450 1/20 12K G F . . **9.00**

402DB225 Correct Quality, simulated Ruby, Sapphire or Onyx, matching stones on barrels **4.50**

403DB280 Correct Quality, simulated Ruby, Sapphire or Onyx **4.00**

404DB225 Correct Quality, simulated Ruby, Sapphire, Moonstone, Onyx **4.50**

405DB200 Correct Quality, simulated Ruby, Sapphire or Onyx **4.00**

406DB250 Correct Quality, simulated Opal, ... **5.00**

407DB500 1/20 12K G.F., Genuine Tiger-eye **10.00**

408DB375 1/20 12K G.F., Genuine green Onyx or Sardonyx **7.50**

409DB375 Correct Quality, simulated Ruby, Sapphire or Onyx with inlaid emblem, Masonic only **7.50**

410DB225 Correct Quality, simulated Ruby, Sapphire or Moonstone **4.50**

411DB263 Correct Quality, simulated Ruby, Sapphire or Emerald **5.25**

412DB225 Correct Quality, hand engraved, Hamilton satin and polished **4.50**

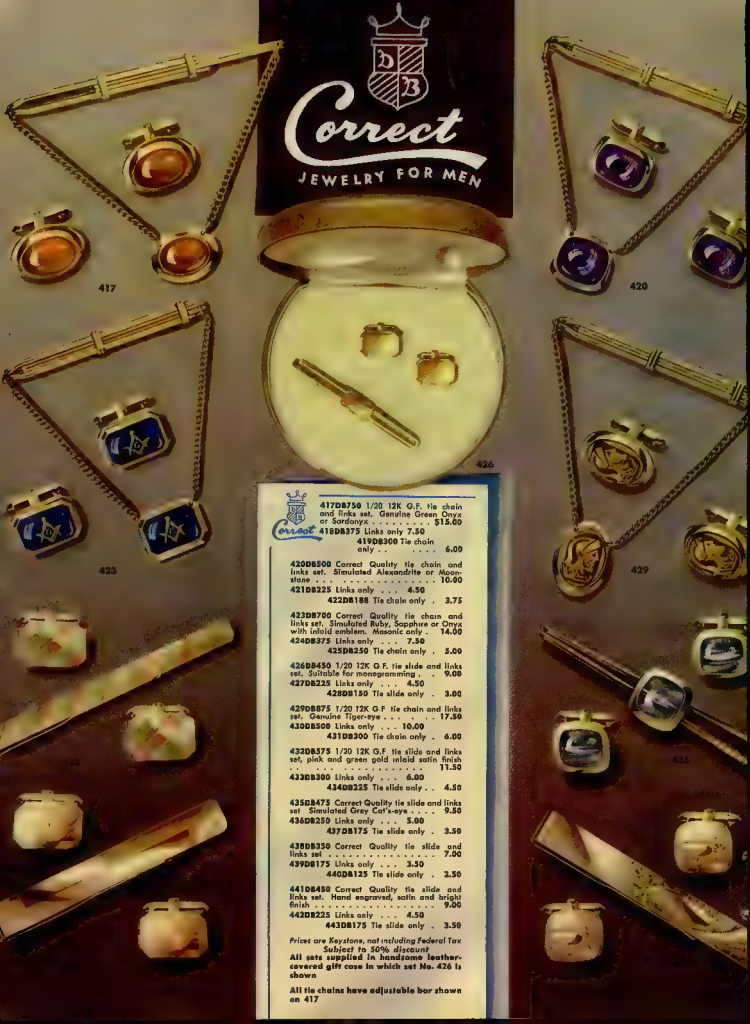
413DB300 1/20 12K G.F. pink and green gold inlaid satin finish **6.00**

414DB275 1/20 12K G.F., hand engraved, Hamilton satin with White polished stripe, ... **5.50**

415DB225 Correct Quality, hand engraved, polished and satin **4.50**

416DB225 1/20 12K G.F., suitable for monogramming **4.50**

All links attractively boxed • Prices are Keystone, not including Federal Tax
Subject to 50% discount



Correct

417DB750 1/20 12K G.F. tie chain and links set. Genuine Green Onyx or Sardonyx $13.00

418DB375 Links only 7.50

419DB300 Tie chain only 6.00

420DB500 Correct Quality tie chain and links set. Simulated Alexandrite or Moonstone 10.00

421DB225 Links only . . . 4.50

422DB188 Tie chain only . . 3.75

423DB700 Correct Quality tie chain and links set. Simulated Ruby, Sapphire or Onyx with inlaid emblem. Masonic only . 14.00

424DB375 Links only . . . 7.50

425DB250 Tie chain only . 5.00

426DB450 1/20 12K G.F. tie slide and links set. Suitable for monogramming . . 9.00

427DB225 Links only . . . 4.50

428DB150 Tie slide only . 3.00

429DB875 1/20 12K G.F tie chain and links set. Genuine Tiger-eye 17.50

430DB500 Links only . . . 10.00

431DB300 Tie chain only . 6.00

432DB575 1/20 12K G.F tie slide and links set, pink and green gold inlaid satin finish 11.50

433DB300 Links only . . . 6.00

434DB225 Tie slide only . . 4.50

435DB475 Correct Quality tie slide and links set Simulated Grey Cat's-eye . . 9.50

436DB250 Links only . . . 5.00

437DB175 Tie slide only . 3.50

438DB350 Correct Quality tie slide and links set 7.00

439DB175 Links only . . . 3.50

440DB125 Tie slide only . 2.50

441DB450 Correct Quality tie slide and links set. Hand engraved, satin and bright finish 9.00

442DB225 Links only . . . 4.50

443DB175 Tie slide only . 3.50

Prices are Keystone, not including Federal Tax
Subject to 50% discount

All sets supplied in handsome leather-covered gift case in which set No. 426 is shown

All tie chains have adjustable bar shown on 417

EUCLID earth moving equipment

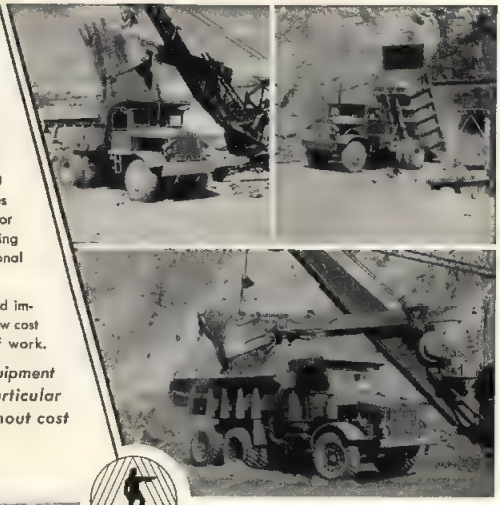
REAR-DUMPS

Rear-Dump Euclids are especially designed to carry rock, ore and heavy excavation and are built for long life in off-the-highway service.

Payload capacities range from 10 to 34 tons... loaded top speeds up to 35.7 mph...powered by 125 to 380 hp Diesel engines for steep grades and tough hauls...spring mounted or semi-rigid drive axles...power steering is standard on some models, optional on others.

Rear-Dump Euclids have established impressive records of efficiency and low cost production on a wide range of work.

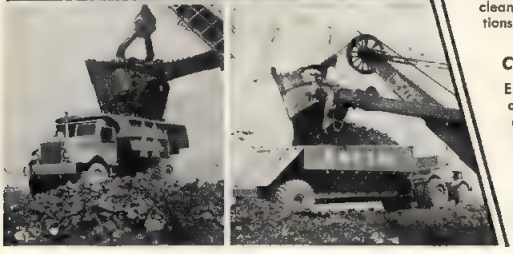
The services of a hauling equipment specialist to discuss your particular problems are available without cost or obligation.



SCRAPERS

This scraper has all the advantages of simple design and rugged construction plus many outstanding features not available in any other scraper.

Struck measure capacity of 15.5 cu. yds. Ten speed transmission providing top speed with full payload of 28.2 mph. Completely open top bowl for top loading. Fast, positive and selective control of all scraper operations. High front apron lift and steep ejector dump. Low center of gravity for good stability. Smooth, clean bowl interior without obstructions. Hydraulic booster steer.



COAL HAULERS

Euclid Coal Haulers range in capacity from 15 to 40 tons and are built for the specific job of hauling coal economically under a wide range of operating conditions. They are available in Rear-Dump and Bottom-Dump models and combine large capacity, high speed and ease of handling.

609-1-61

for Mine, Quarry and Heavy Construction Work

BOTTOM-DUMPS

Bottom-Dump Euclids combine rugged staying power with speed and economy of operation. Large capacity, fast travel speeds, and ability to "keep coming back for more" on the toughest jobs are features that add up to more pay in every Euclid payload.

Struck measure capacities range from 13 to 25 cubic yards... powered by 190 to 300 hp Diesel engines . . . top loaded speeds up to 34.4 mph . . . large tires provide good traction and flotation for soft fills and slippery hauls . . . universal hitch design and short wheelbase of the tractor afford exceptional maneuverability.

Big, wide hoppers provide an excellent target for loading with large shovels, draglines and mobile loading equipment. Quick dumping on fills and into drive-over hoppers enables Euclids to cut hauling costs.

THE EUCLID LOADER

Built to match the speed, economy and long life of other Euclid equipment, the Loader has reduced earth moving costs on many types of work...dams, airports, levees, highway and railroad construction, industrial plant grading and open pit mining operations. It will load practically any material . . . loose sand, gravel, hard clay, sticky gumbo, shale, etc. . . in a short travel distance.

Only one operator is required for Loader and tractor . . . Loader operations are controlled by hydraulic control levers conveniently located on the puller tractor. Maximum cutting depth is 24"—shallow cuts can be made up to 9' 6" wide. Belt is driven by a 190 or 275 hp Diesel engine.

Descriptive literature and detailed specifications on Euclid equipment are available upon request.

609-2-51

Serving Accessories

COVERED CANDY DISH

Highly polished Brass or Copper dish with close-fitting, 3-section glass insert. Handsome candy dish of either Brass or Copper will add a decorative touch to the furnishings of any room setting. Provides smart, modern contrast in kitchen, dining, or living room. Diameter 6½", height including cover 3". Individually boxed. Ship. wt. 3 lbs. Be sure to specify whether Brass or Copper is desired.

527A30.....EACH **$2.45**

Special! One Dozen Assorted $12.00

All these service pieces are hammered aluminum with bright, gleaming finish. Each piece is decorated with fruit design in bottom. Individually wrapped. Ship. wt. 2 lbs.

2-Cornered Bonbon Dish. (Shown center right.) Decorative coiled handle. 9½" in diameter

527A5.....EACH **$1.15**

Bonbon Dish with 3 compartments. (Shown center left.) Attractive coiled handle. 9½" in diameter.

527A8.....EACH **$1.15**

6-Cornered Bonbon Dish. (Shown top right.) Coiled handle of pleasing design. Diameter 10".

527A7.....EACH **$1.15**

Fruit Bowl with fluted edge. (Shown top center.) Handsome bowl for a variety of uses, as centerpiece, for serving, etc. 10" in diameter

527A6.....EACH **$1.15**

Relish Dish with 2-compartment glass insert. (Shown at bottom.) Charming coil handle. Glass insert 5½x8"

527A9.....EACH **$1.15**

HOSTESS CAKE COVER SET

King size cake cover set that takes the largest cakes. Made of heavy gauge aluminum with cover. 13½" diameter, and 6½" high. Clear plastic knob on cover. Close fitting cover to retain freshness longer. Sparkling glass tray, removable, can be used for separate serving. Individually boxed. Ship. wt. 5 lbs.

527A344. PER SET **$1.85**

ALL PRICES WHOLESALE NET, LESS 2% DISCOUNT FOR CASH

SOLID COPPER TRAY

Made of heavy gauge copper with turned edge. Gleaming, non-tarnish finish. Diameter 12½". Each tray wrapped in sealed cellophane. Net weight 18 ounces. Ship. wt. 2 lbs.

527A259.....Each **$1.95**

ROUND CHROME TRAY

Made of 24 gauge steel, finished in bright, shining chrome. Diameter 13". Ideal for serving refreshments. Packed 2 dozen in carton. Ship. wt. 27 lbs.

527A248—Each 85c.....PER DOZEN **$9.95**

ALUMINUM FRUIT BASKET

Hand wrought aluminum fruit basket. Heavy gauge aluminum. Embossed floral and fruit design. Extra sturdy handle. An impressive gift item. 10¼" high, 10¾" wide. Individually wrapped. Ship. wt. 3 lbs.

527A268

EACH **$3.25**

Oblong Serving Tray with charming overall paisley design. Lustrous finish. Size: 10x15". Coiled handles. Individually wrapped. Ship. wt. 2 lbs.

527A75.....EACH **$1.50**

LOVELY ALUMINUM SERVICE PIECES

6-Cornered Basket. Unusual design with handsome overall paisley pattern and coiled handle. Bright finish. 11" in diameter. Ind. wrapped. Ship. wt. 2 lbs.

527A77.....EACH **$1.50**

Bread Tray of paisley aluminum with coiled side handles. Adds a smart decorative touch to any table setting. Size: 7½x12½". Ind. wrapped. Ship. wt. 2 lbs.

527A75.....EACH **$1.50**

New Aluminum Servers

SALAD BOWL SET

Salad bowl set of distinction that will highlight any table setting. Footed bowl of hand-wrought aluminum 10" in diameter. Plastic salad fork and spoon with decorative cross-cut design. Individually boxed. Ship. wt. 3 lbs.

527A80..... EACH **$2.85**

FRUIT BOWL SET

An attractive center-piece as well as a service-piece. Footed fruit bowl is of hammered aluminum with artfully designed side handles. 10½" diameter bowl. 4 stainless steel knives with gleaming ivory finish handles. Individually boxed. Ship. wt. 3 lbs.

527A81..... EACH **$4.50**

COVERED RELISH TRAY

Beautiful oblong relish dish of hand-wrought aluminum with a highly polished, bright finish and decorative leaf design. Coiled side handles. Size: 10x13". 3-compartment glass insert, size 8½x2". Aluminum cover. Individually packed. Ship. wt. 5 lbs.

527A79..... EACH **$3.75**

KROMEX TU-TIER TIDBIT TRAY

Unusual serving tray of smart, modern styling—doing justice to the serving of candies, nuts, or canapes. Gleaming bright heavy-gauge aluminum 12" high, 9½" diameter. Cancellig designed, curved handle. A gift item every woman appreciates. Individually boxed. Ship. wt. 2 lbs.

527A83..... EACH **$1.95**

FASHIONED CRUET SET

Charming cruet set consisting of hammered aluminum tray, crystal oil and vinegar cruets, condiment jar with glass spoon and aluminum cover, plus salt and pepper shakers. Tray is 8½" in diameter with individual bases for bottles and jar. Overall height 7½". Individually boxed. Ship. wt. 4 lbs.

527A72..... EACH **$3.35**

COVERED CANDY OR RELISH DISH

Double-purpose, handled dish decorated with leaf design on hand-wrought aluminum with bright, gleaming finish. 10½" diameter with 3-compartment glass insert 7½" in diameter. Aluminum cover. Individually boxed. Ship. wt. 2 lbs.

527A78..... EACH **$3.75**

BUTTER DISH

Constant demand for this utilitarian butter dish that will grace any table setting. Hammered aluminum, 7" in diameter with 4" glass insert and hand wrought aluminum dome cover. Individually boxed. Ship. wt. 2 lbs.

527A70..... EACH **$1.35**

ALUMINUM SILENT BUTLER

Delicately embossed fruit pattern adorns cover of the large, attractive silent butler. Heavy gauge aluminum with smooth satin finish. Riveted handle. Size: 8½x7x2" deep. Individually packed. Ship. wt. 2 lbs.

527A293..... EACH **$3.35**

JAM, JELLY AND RELISH SERVERS

JAM-RELISH SET

Handy and delightful serving piece. Hammered aluminum tray with center handle, 2 jam glasses with 2 glass spoons and aluminum covers. Tray size: 8x6½" long. Overall height 6¼". Individually boxed. Ship. wt. 2 lbs.

527A71..... EACH **$2.45**

APPLE-DESIGN JAM SET

Unusual jam set in pleasing apple design. Hammered aluminum tray 5¾x3¾". Fluted edge and bright, glossy finish. 2 hand cut crystal jam dishes with polished apple shape covers. Packed one set in carton. Ship. wt. 3 lbs.

527A19..... EACH **$1.95**

JUNIOR HOSTESS SET

Rich-looking service piece for all around use. Hammered aluminum serving tray, 7½x12", with set handles. Soft, satin finish with overall paisley design. Two 4x4" glass dishes with contrasting, highly polished aluminum covers. Packed one set in carton. Ship. wt. 3 lbs.

527A17..... EACH **$1.95**

THREE-TIER TID BIT TRAY

Charming and graceful serving tray of hand wrought aluminum. Ideal for party servings of candies, nuts, pastries, sandwiches, etc. Decorative floral pattern. Bottom tray, diameter, 13", center tray 11½", top tray 9½". Height 12". Individually packed. Ship. wt. 2 lbs.

527A82..... EACH **$4.35**

A New, Exciting Game!

Copyright 1950,
Patents Pending

3-Way sales sensation!

BASKET BALL BUBBLE GUM BANK

1. **An Exciting Game of Skill!**
2. **A Toy Bank, to Encourage Children to Save!**
3. **A Real Bubble Gum Home Vending Machine!**

In durable colored plastic with 50 balls of genuine Leaf Rain-Blo Bubble Gum.

Extra Sales, Extra Profits
with Leaf Official Refills! Box of 60 Balls, Suggested Retail Price **25¢**

Here's a new action toy with Super SALES APPEAL! It's irresistible! It's unequalled by any toy or candy novelty! The Basket Ball Bubble Gum Bank appeals to every basic interest of kids . . . interest in sports, in games of skill, in competition.

Simple to operate . . . insert penny, nickel or dime which releases ball above shooting spring. Then, shoot ball in direction of basket. Score a hit and out comes gum. Ball will return until basket is scored.

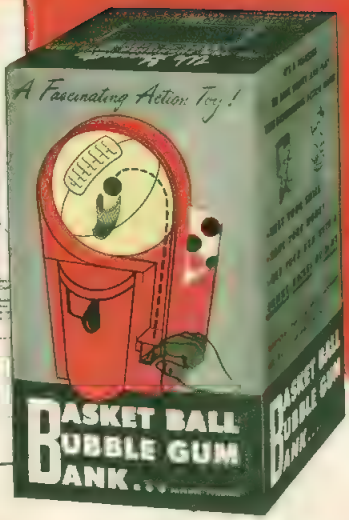
Created, Designed, Exclusively Manufactured by

LEAF GUM COMPANY • 1155 N. CICERO AVE.

A Division of Leaf Brands, Inc., Chicago, U.S.A.

For over 25 years the leading producer of ball gum for the vending trade.

SEE OTHER SIDE FOR MORE ABOUT THIS NEW EXCITING GAME



AN ACTION TOY...
A USEFUL BANK...
A REAL HOME VENDING MACHINE!

...AND A SALES SENSATION!

BASKET BALL BUBBLE GUM BANK.....

A new exciting toy made of durable colored plastic. Simple to operate. Metal Key unlocks back plate for easy refilling or to remove pennies, nickels and dimes.

Basket Ball Bubble Gum Bank is the outstanding toy of all time. Order now for prompt delivery.

NO. 512 BASKET BALL BUBBLE GUM BANK
Individually packed in attractive carton including Key and 50 genuine Leaf Rain-Blo Gum Balls. Packed 24 Banks to shipping container (Shipping weight 28½ lbs.)

OFFICIAL REFILLS FOR THE BASKET BALL BUBBLE GUM BANK

NO. 513 LEAF OFFICIAL REFILL BOX with cellophane window contains 60 genuine Rain-Blo Bubble Gum Balls. Designed to retail at 25¢ per box. Packed 96 boxes to shipping container. (Shipping weight 29½ lbs.)

We Guarantee

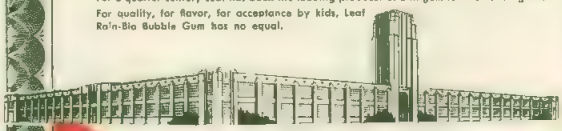
The gum furnished with the Basket Ball Bubble Gum Bank is genuine Leaf Rain-Blo Ball Gum.

To insure best operation, continue using Leaf's official Basket Ball Bubble Gum Bank refills available at all leading stores.

LEAF RAIN-BLO...

Largest Selling Ball Gum in America

For a quarter-century Leaf has been the leading producer of ball gum for the vending trade. For quality, for flavor, for acceptance by kids, Leaf Rain-Blo Bubble Gum has no equal.



LEAF GUM COMPANY
DIVISION OF LEAF BRANDS, INC.
1155 N CICERO, CHICAGO, U S A
Cable Address, Leafbrands

Dinnerware

American Semi-Porcelain

Paden City Potteries

Letchi Nut Pattern

A stylized treatment in greens, grays and reds on a light ivory body. New coupe shape in American semi-porcelain

Stock No.	Mfr's. No	Pieces In Set	Service For	lb Set	Cat. List SET
44C 501	944	93	12	75	$54.40
44C 503	528	53	8	34	30 60
44C 505	267	32	6	21	18 00
44C 506	167	20	4	12	9 45

Rosewood Pattern

A large center spray of burgundy flowers with blended yellow centers intermingled with green leaves on a light ivory background. New coupe shape in American semi-porcelain

Stock No.	Mfr's. No.	Pieces In Set	Service For	lb Set	Cat. List SET
44C 553	944	93	12	75	$54 40
44C 553	528	53	8	34	30 60
44C 555	267	32	6	21	18 00
44C 556	167	20	4	12	9 45

Open Stock—Sold in Carton Quantities Only

Stock No	Item	Size	Dozen In Ctn.	lb Doz	Cat. List EACH
4C 513	Casserole, Cov'd		½	42	▲$3 40
4C 514	Fruits		1	6	▲ 40
4C 515	Sauceboat		1/3	16	▲ 1 55
4C 517	Nappy	8	1/6	18	▲ 1 15
4C 519	Cereal		1	20	▲ 50
4C 521	Pickle Dish		1/2	7	▲ 1 15
4C 522	Plates	4"	1	7	▲ 50
4C 523	Plates	5"	1	7	▲ 50
4C 525	Plates	7"	1	13	▲ 70
4C 526	Plates	8"	1	15	▲ 85
4C 529	Rd. Chop Plate	13"	1/4	36	▲ 2 00
4C 530	Platters	8"	1/3	15	▲ 1 15
4C 531	Platters	10"	1/3	25	▲ 2 00

Stock No	Item	Doz. Pair In Ctn	lb Doz	PAIR
4C 536	Shakers, S. & P	¾	4	▲ 1 15

Stock No	Item	Doz. In Ctn	lb Doz	EACH
4C 537	Soups, Coupe	1	8½	▲ 65
4C 538	Soups, Lug	1	8½	▲ 65
4C 540	Sugar	1/3	14	▲ 2 25
4C 541	Creamers	1/3	10	▲ 1 45
4C 543	Teacups & Saucers	1	12	▲ 1 00
4C 544	Teacups	1	7	▲ 65

Open Stock—Sold in Carton Quantities Only

Stock No.	Item	Size	Dozen In Ctn.	lb Doz	Cat. List EACH
4C 563	Casserole, Cov'd		¼	42	▲$3 40
4C 564	Fruits		1	6	▲ 40
4C 565	Sauceboat		1/3	16	▲ 1 55
4C 567	Nappy	8"	1/6	18	▲ 1 15
4C 569	Cereal		1	20	▲ 50
4C 571	Pickle Dish		1/2	7	▲ 1 15
4C 572	Plates	4"	1	7	▲ 50
4C 573	Plates	5"	1	7	▲ 50
1C 575	Plates	7"	1	13	▲ 70
4C 576	Plates	8"	1	15	▲ 85
4C 579	Rd. Chop Plate	13"	1/4	36	▲ 2 00
4C 580	Platters	8"	1/3	15	▲ 1 15
4C 581	Platters	10"	1/3	25	▲ 2 00

Stock No.	Item	Doz. Pair In Ctn.	lb Doz	PAIR
4C 586	Shakers, S. & P	¾	4	▲ 1 15

Stock No.	Item	Doz. In Ctn	lb Doz	EACH
4C 587	Soups, Coupe	1	8½	▲ .65
4C 588	Soups, Lug	1	8½	▲ .65
4C 590	Sugar	1/3	14	▲ 2.25
4C 591	Creamer	1/3	10	▲ 1.45
4C 593	Teacups & Saucers	1	12	▲ 1 00
4C 594	Teacups	1	7	▲ .65

▲ We do not break cartons.

Closed Sets

Golda Pattern

Attractively simple 23K gold on fine quality semi-porcelain dinner ware

Stock No	Pieces In Set	Service For	lb Set	Cat. List SET
44C 1405	32	6	15	$ 7 95
44C 1406	53	8	27	15 25

One set in a carton.

Dinnerware

American Semi-Porcelain
Paden City Potteries

Tea Rose—Square Plate

American semi-porcelain modern square shape dinnerware. Platinum edge with sprays of yellow roses on a light ivory body.

Stock No.	Mfr's. No.	Pieces In Set	Service For	Lb Set	Cat. List SET
44C 601	944	93	12	75	$44 85
44C 603	523	53	8	34	25.80
44C 605	267	32	6	21	14.70
44C 606	167	20	4	13	8.10

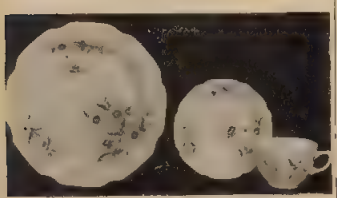
Open Stock—Sold in Carton Quantities Only

Stock No.	Item	Size	Dozen In Ctn.	Lb Doz.	Cat. List EACH
4C 613	Casserole, Cov'd.		½	42	▲$2 70
4C 614	Fruits		1	6	▲ 35
4C 615	Sauceboat		½	16	▲ 1 25
4C 617	Nappy	8"	½	18	▲ 95
4C 619	Cereals		1	20	▲ 40
4C 622	Plates	4"	1	7	▲ 40
4C 623	Plates	5"	1	7	▲ 40
4C 625	Plates	7"	1	13	▲ 55
4C 626	Plates	8"	1	15	▲ 70
4C 628	Sq. Chop Plate 11"		½	27	▲ 95
4C 629	Sq. Chop Plate 13"		¼	30	▲ 1 60

Stock No.	Item	Doz. Pair In Ctn	Lb Doz.	Cat. List PAIR
4C 636	Shakers, S & P.	¼	4	▲ .95

Stock No.	Item	Doz. In Ctn.	Lb Doz.	Cat. List EACH
4C 637	Soups, Coupe	1	3	▲ 50
4C 638	Soups, Lug	1	3½	▲ 50
4C 640	Sugar	½	14	▲ 1 80
4C 641	Creamer	½	10	▲ 1 15
4C 643	Teacups & Saucers	1	12	▲ 80
4C 644	Teacups	1	7	▲ 50

Closed Sets
Barbara Pattern

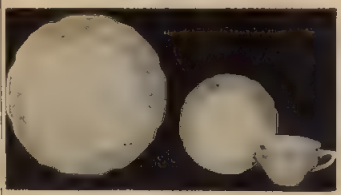


Lovely three spray floral design, suitable for any occasion.

Stock No.	Pieces In Set	Service For	Lb Set	Cat. List SET
44C 1409	32	6	15	$ 9 15
44C 1410	53	8	27	16 75

One set in a carton.

Closed Sets
Mildred Pattern



Put here pattern each is banded in 22K gold yet priced for everyday living.

Stock No.	Pieces In Set	Service For	Lb Set	Cat. List SET
44C 1413	32	6	15	$10 35
44C 1414	53	8	27	18.55

One set in a carton.

Colemont Pattern

White semi-porcelain ware with an embossed shoulder

Stock No.	Pieces In Set	Service For	Lb Set	Cat. List SET
44C 1401	32	6	15	$6 60

One set in a carton

Wild Rose Pattern

The popular White Rose Floral Pattern is decorated in delicate colors on white background, scheme selection

Stock No.	Pieces In Set	Service For	Lb Set	Cat. List SET
44C 649	53	8	38	$19 50

One set in a carton.

▲We do not break cartons

Zoomeray

No. 300. A modern 5" x 7" beautiful, molded plastic pistol. Wrist action toy.

TO RETAIL **50¢**

Zoomerang gun

No. 200. Big, 6" x 10" bright plastic gun . . . with real spring action and firing trigger. Includes beloved Hoppy's autograph.

TO RETAIL **$1.30**

Tigrett

Molded by KUSAN
a Tigrett Product
ENTERPRISES

Zoomerang
THE
Largest
Selling
29¢ TOY
IN AMERICA

Tom Thumb

Toy TYPEWRITER

LATEST SENSATION IN EDUCATIONAL TOYS

No. 449

LETTERS ARRANGED SAME AS STANDARD KEYBOARD . . .
INDIVIDUAL KEY OPERATION . . .
SHIFT KEYS . . .
BALL BEARING CARRIAGE . . .
STANDARD ½" RIBBON . . .
RED WRINKLE FINISH . . .

10" deep
10¼" wide
6" high

Weight 9 lbs.

Packed in Individual Cartons. One-half Dozen to Master Carton.

Cash Register

Model 148--Six-key Metal Tom Thumb Cash Register, finished in red wrinkle—.01, .05, .10, .25, $1.00 and No Sale. When key is punched, sale registers, drawer opens and bell rings.

6½" x 7¼" x 7¼"

No. 148

Packed in individual cartons. One dozen to master shipping carton. Weight 40 lbs. F.O.B. Jackson, Michigan.

WESTERN STAMPING COMPANY
JACKSON, MICHIGAN

Sole Sales Representative
HENRY KATZ
200 FIFTH AVENUE
NEW YORK 10, N. Y.

The Original Tom Thumb Cash Register

GREATEST VALUE IN TOYS

DE LUXE CASH REGISTER

- Chrome Plated
- Highly Polished
- Mirror Finish
- Smart Black
- Wrinkle Trim

No. 248

Patent Nos. 2458850, 2458863

No. 1148

More Than a Toy . . A Real Cash Register

Over 1,500,000 In Joyful Use

OUTSTANDING FEATURES

Unbreakable Plastic Window . . .
Electrically Welded Joints . . .
Expertly built to last a lifetime by Technicians with Years of Production Experience
No Sharp Edges . . .
Protective Rubber Feet . . .
Metal Play Money . . .
Takes lowest freight rate due to heavy gauge steel construction

Size: 7¼ inches deep
6½ " wide
7¼ " high

Packed in individual cartons. One dozen to a master corrugated shipping container. Weight 46 lbs.
F.O.B. Jackson, Michigan

Sole Sales Representative
HENRY KATZ
200 FIFTH AVENUE
NEW YORK 10, N. Y.

WESTERN STAMPING COMPANY
JACKSON, MICHIGAN

Tom Thumb

Toy TYPEWRITER

LATEST SENSATION IN EDUCATIONAL TOYS

No. 449

LETTERS ARRANGED SAME AS STANDARD KEYBOARD . . .
INDIVIDUAL KEY OPERATION . . .
SHIFT KEYS . . .
BALL BEARING CARRIAGE . . .
STANDARD ½" RIBBON . . .
RED WRINKLE FINISH . . .

10" deep
10¼" wide
6" high

Weight 9 lbs.

Packed in Individual Cartons. One-half Dozen to Master Carton.

Cash Register

Model 148 Six-key Metal Tom Thumb Cash Register, finished in red wrinkle—.01, .05, .10, .25, $1.00 and No Sale. When key is punched, sale registers, drawer opens and bell rings.

6½" x 7¼" x 7¼"

No. 148

Packed in individual cartons. One dozen to master shipping carton. Weight 40 lbs. F.O.B. Jackson, Michigan

WESTERN STAMPING COMPANY
JACKSON, MICHIGAN

Sole Sales Representative
HENRY KATZ
200 FIFTH AVENUE
NEW YORK 10, N. Y.

The Original Tom Thumb Cash Register

No 248

Patent Nos. 2458850, 2458863

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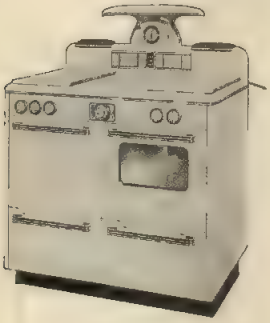
F.O.B. Jackson, Michigan

Sole Sales Representative
HENRY KATZ
200 FIFTH AVENUE
NEW YORK 10, N. Y.

WESTERN STAMPING COMPANY
JACKSON, MICHIGAN

ODIN "BEAUTYRANGE" GAS RANGES



Model 1302

TOP

Divided one-piece china-white porcelain top.
Acid resisting.
Two polished chrome vents
Room for four large 9-inch cooking pans
Two electric outlets for your toaster and coffeemaker
Chrome trim range lamp.
Telechron electric combination clock timer.
Salt and pepper shakers
Polished cast aluminum pancake griddle

OVEN

Seamless one-piece large oven with bright chrome-finished linings
Robertshaw heat control.
Chrome finished oven bottom.
Glass in oven door provides "Day Like" baking.
Light in oven automatically lights when door is opened
Oven light switch on top of range, brilliantly illuminates oven
Bright chrome oven door lining

TOP BURNERS

Two Supra-Flex giant burners
Two Hi-Lo simmer burners
Removable polished chrome spill-over trays
Lift covers over all burners

BROILER

Odin's original Swing-out Hi Broiler and Barbecuer.
Bright chrome broiler baffle.
Bright chrome broiler door lining.
Broiler assembly removable for cleaning.
Chrome finished broiler compartment bottom

BODY

Back to wall construction
Recess in base allows ample toe space.
Porcelain main front frame
Two bright finished convenient towel rods

STORAGE

Two large storage drawers for all necessary utensils

MEASUREMENTS

	Deep, In.	High, In.	Wide, In.
Oven	19	14	16
Hi Broiler	19	14	16
Low Broiler	20	9	16
Cooking top over-all	22½	36	38
Stove over-all	25	42	38

Approximate Shipping Weight ..... 306 lbs
A.G.A. Blue Seal of Approval
Model 1302 ..... Each $238 75

Model 115

TOP

Divided china-white porcelain top.
Acid resisting
Two polished chrome vents.
Room for four large 9-inch cooking pans.
Two electrical outlets for use of your toaster or coffeemaker.
Chrome-trimmed range lamp.
Telechron electric combination clock-timer in back rail.

OVEN

Seamless one-piece large porcelain oven.
Robertshaw heat control.
Johns-Manville Rock Wool insulation keeps heat in the oven.

TOP BURNERS

One giant burner.
Three standard burners.
Removable polished chrome spill-over trays
Chrome-trimmed valve handles

BROILER

Roll-out waist-hi broiler and barbecuer
Warming compartment drawer

BODY

Electrically welded chassis.
Recess in base allows ample toe space.

STORAGE

Two large storage drawers for all necessary utensils.

MEASUREMENTS

	Deep, In.	High, In.	Wide, In.
Oven	19	14	16
High Broiler	19	14	16
Cooking Top Overall	22½	36	38
Stove Overall	25	42	38

Approximate Shipping Weight ..... 290 lbs
A. G. A. Blue Seal of Approval
Model 115 ..... Each $196 75

ODIN "BEAUTYRANGE" GAS RANGES

Model 105

TOP

Divided china-white porcelain top
Acid resisting.
Room for four large cooking pans.
Flue deflector.

OVEN

Seamless one piece large porcelain oven.
Robertshaw heat control.
Complete Johns-Manville Rock Wool insulated.
Chrome-plated wire racks in oven

TOP BURNERS

One giant burner.
Three standard burners.
Porcelain finished grates—easily removed for cleaning
Removable polished chrome spill-over trays.

BROILER

Pull-out smokeless broiler.
Broiler can also be used as warming compartment.

BODY

Electrically welded chassis.
Recess in base for ample toe space

STORAGE

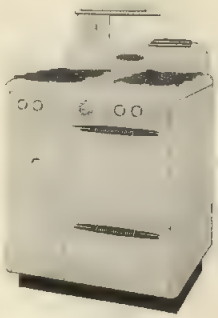
Large, roomy storage compartment.
Roller-bearing storage drawer.

MEASUREMENTS

	Deep, In.	High, In.	Wide, In.
Oven	19	14	16
Broiler	20	9	16
Cooking top over-all	22½	36	38
Stove over-all	25	42	38
Approximate Shipping Weight			247 lbs

A. G. A. Blue Seal of Approval

Model 105 ..... Each $142 50



Model 305

TOP

Divided one-piece china-white porcelain top.
Acid resisting.
Polished chrome vent.
Room for four large cooking pans.
Working space between burners.
Lamp mounted on back rail
Handy timer in lamp post.

OVEN

Seamless, one-piece porcelain oven
Robertshaw heat control.
Johns-Manville Rock Wool insulation keeps heat in oven.
Chrome-plated wire oven racks

TOP BURNERS

One giant burner.
Three standard burners.
Highly polished chrome spill-over trays.
Porcelain finished top grates—easily removed for cleaning.

BROILER

Pull-out, smokeless, roller-bearing broiler under oven.
Broiler may also be used as a warming compartment

BODY

Back to wall construction.
Recess in base allows ample toe space.
Porcelain main front frame.

STORAGE

Large, roomy, convenient storage compartment.
Storage rack in compartment.

MEASUREMENTS

	Deep, In.	High, In.	Wide, In.
Oven	19	14	16
Broiler	20	9	16
Cooking top over-all	22½	36	30
Stove over-all	25	42	30
Storage space	20	23	9
Approximate Shipping Weight			220 lbs

A. G. A. Blue Seal of Approval

Model 305 ..... Each $152 50

Duchess Doll Presents...

Walt Disneys ALICE in Wonderland Doll

(Based on the forthcoming Walt Disney Motion Picture)

All the excitement, human interest and heart warming appeal of Walt Disney's Alice is captured by . . . Duchess Doll with the same artistry that makes their high fashion Character Dolls the fastest selling line in America . . . Duchess is proud that Walt Disney Productions has intrusted to them the creation of this important Character Doll which will serve a big need in the Popular Price Field . . . You are cordially invited to inspect the high light of the year at the . . .

NEW YORK

TOY FAIR

HOTEL McALPIN—ROOM 967

HOTEL NEW YORKER—ROOM 518

PACKAGED IN WALT DISNEY DESIGNED BOXES

COPYRIGHT WALT DISNEY PRODUCTIONS

Duchess Doll Corp.

94-27 Roosevelt Avenue, Jackson Heights, L. I., N. Y.

SALES REPRESENTATIVES

NORTHEAST

Harmer & Co.
Room 902
200 Fifth Ave.
New York City, N. Y.

NORTHWEST

L. W. Baldwin & Assoc.
1008 10th Avenue South
Seattle, Wash.

KANSAS, ARKANSAS & MISSOURI

Myers & Co., P.O. Box
Memphis, Tennessee

California

Spiro S. Cotter & Assoc.
910 South Spring Street
Los Angeles, California

Canadian

Morton Lewis Co.
1600 Ameon Mary Bank
Montreal P.Q. Canada

SOUTHWEST

Jack Fitch Dallas Co.
200 West Berry
Fort Worth, Texas

MIDWEST

Woodland & Lindsay
Room 300
200 Fifth Avenue
New York City, N. Y.

ANOTHER

Duchess First!

the DUCHESS SMILING DOLL with Real Teeth*

SEE OUR COMPLETE LINE

AT THE

TOY FAIR

Room 967 Hotel McAlpin
Room 518 Hotel New Yorker

*NOW A STANDARD FEATURE OF ALL OUR 7½" ALL PLASTIC CHARACTER DOLLS

- **Moving Eyes**
- **Moving Head**
- **Moving Arms**
- **Smiling Lips**
- **7½" All Plastic Doll Body**

Also available undressed with or without wigs and with painted or moving eyes.
FULL INFORMATION UPON REQUEST

PERMANENT N. Y. SHOWROOM
200 FIFTH AVENUE, N. Y. C.

86-27 Roosevelt Ave. Jackson Heights, L. I., N. Y.

Duchess Dolls New 12½" DOLL

DRESSED IN 12 GLAMOURUOUS STYLES

★ MOVING EYES

★ MOVING HEAD

★ MOVING ARMS

★ MOVING LEGS

STANDS and SITS in any Position

PACKAGED IN SALES GETTING WINDOW BOXES

12½" ALL PLASTIC DOLL BODY

OUR 12½"
Body is available
undressed with or without wig
WRITE FOR FULL INFORMATION

Duchess Doll Corp.

Ansco Cameras

NOTE: Ansco Merchandise Is Offered to Dealers Having Photographic Departments

ANSCO FILMS

ALL FILM PRICES LISTED AT RETAIL

Size	Exposure	Plenachrome Per Doz.	Supreme Per Doz.	Superpan Press Per Doz.
127	8	$4.80	$5.40	$5.40
120	8	5.40	6.00	6.00
6-20	8	5.40	6.00	6.00
116	8	6.60	7.20	7.20
6-16	8	6.60	7.20	7.20

COLOR FILM

Specially Daylight or Tungsten

Size	Exposure	Per Dozen
828	8	$12.00
6-20	6	11.88

35mm. FILM—Black & White

Size	Exposures	Supreme	Ultra-Speed Pan
35mm	36	$1.25 Per Roll	$1.25 Per Roll

35mm. FILM—Color

Size	Exposures	Daylight	Tungsten
35mm	20	$2.21 Per Roll	OUT

ANSCO FILM PACKS

Size	Supreme	Superpan Press
2¼x3¼	$1.60	$1 60
3¼x4¼	2.15	2.15
3½x4¾	2.25	2.25
[illegible]	2.45	2.45

ANSCO MOTION PICTURE FILM

Size	Hy Pan	SSS	Color
8mm— 50' Rolls	$2.85	$2.85	. . .
16mm—100' Rolls	6.95	8.95	$9.80

SHUR-SHOT

The Ansco Shur-Shot is smartly styled in black with bright metal trim. Its rugged construction insures years of service. Single meniscus lens in a rotary shutter, fixed focus from 6 feet to infinity. Two brilliant reflecting view finders. Picture size: 2¼x3¼". Uses 120 film.

424Q559.....RETAIL, EACH **$3.95**

ANSCO REDIFLEX

New Ansco Rediflex Camera. Brilliant reflex subject finder in which the picture can actually be seen before taking. Factory-focused twin-element lens. Self-setting shutter synchronized for flash pictures indoors. Smart carrying strap supplied with camera. Takes 12—2¼x2¼" pictures on 620 film.

424Q673—
RETAIL, EACH **$12.95**
Case for Rediflex camera.
424Q694—
RETAIL, EACH **$2.95**
Flash unit for above.
424Q695—
RETAIL, EACH **$3.21**

ANSCO TITAN

FEATURES

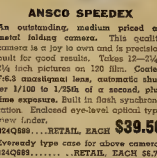
- Coated F:4.5 Anastigmat Lens Accurate Set
- Release Type Shutter
- Speeds to 1/400th Second
- Built-in Flash
- Synchronization
- Unique Color-Coded Zone Focusing Indicator
- All Metal Body Construction
- Picture Size 2¼x2¼"

To meet the demands for excellence in a folding type camera, Ansco has perfected this Titan model. It's the finest that Ansco has ever produced. Perfect in every feature of construction, superb appearance, and engineering factors that make for ease of operation. And, above all, the Titan folding camera makes possible the quality picture that every camera owner desires. Equipped with an F:4.5 coated anastigmat lens in a set and release type shutter with speeds from ½ to 1/400th of a second. Positive flash synchronization. Uses 120 film, taking 12 pictures 2¼x2¼ inches per roll

424Q696 .....RETAIL, EACH **$69.50**

Genuine leather, Everready type case for above.

424Q687 .....RETAIL, EACH **$7.50**



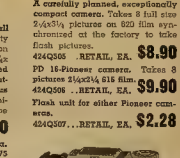
ANSCO SPEEDEX

An outstanding, medium priced all metal folding camera. This quality camera is a joy to own and is precision built for good results. Takes 12—2¼x2¼ inch pictures on 120 film. Coated F:6.3 anastigmat lens, automatic shutter 1/100 to 1/25th of a second, plus time exposure. Built in flash synchronization. Enclosed eye-level optical type view finder.

424Q699....RETAIL, EACH **$39.50**

Everready type case for above camera.

424Q683.....RETAIL, EACH $6.75



ANSCO PIONEER

A carefully planned, exceptionally compact camera. Takes 8 full size 2¼x3¼ pictures on 620 film synchronized at the factory to take flash pictures.

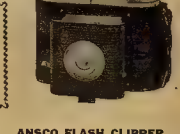
424Q505 .RETAIL, EA. **$8.90**

FD 16-Pioneer camera. Takes 8 pictures 2¼x2¼ 616 film. **$9.90**

424Q506 ..RETAIL, EA.

Flash unit for either Pioneer cameras.

424Q507...RETAIL, EA. **$2.28**



DEALER NOTE

Ansco merchandise is Fair Traded and sold only to photographic dealers, or to retailers who have a photographic department in their store. Write for dealer's price list on your letterhead.

ANSCO FLASH CLIPPER

A quality, low priced camera, equipped with special double Fill lens. Takes good pictures with simplicity of operation. Automatic shutter for snapshots and bulbs . . built-in flash synchronization . . . focused for pictures from 6 feet to infinity. Enclosed eye level view finder. 16 pictures 2¼x2½ on 616 film.

424Q699....RETAIL, EACH **$14.85**

Everready case for above.

424Q681... ..RETAIL, EACH **$3.25**

Flash unit for Clipper camera.

424Q682. . . RETAIL, EACH **$4.03**

Ansco Camera and Special Kits

DEALER NOTE

Ansco merchandise is fair traded and sold only to dealers having photographic departments. Write for Dealers' Cost on your letterhead.

JUNIOR PRESS PHOTOGRAPHER

This Ansco camera outfit is especially planned for the young people. Luggage-type transport case with Brown Vinyl covering. Case contains: 1 Ansco Pioneer Camera, 1 flash unit with batteries, 4 flashlamps, 1 portrait attachment, 1 Ansco Pleochrome, all-weather film, 1 assignment book, 1 membership card, and 1 identity button.

424Q788...RETAIL, PER SET **$13.95**

FLASH CLIPPER CAMERA OUTFIT

Easy to handle, easy to use—indoors or out. In luggage-type Brown Vinyl case. Case contains: 1 Ansco Flash Clipper camera with yellow filter, 1 Everready carrier case, 1 Anscoflash with batteries, 4 flashlamps, 1 Ansco Supreme film, 1 portrait attachment.

424Q787.....RETAIL, PER SET **$24.95**

ANSCO HOME DEVELOPING OUTFIT

This 13-piece home outfit contains: Directional safelight with red filter, 3 trays, fixer, graduate, combination stirring-rod thermometer, contact printer, packets of Ansco Vividol developer, 25 sheets of Ansco Convira contact paper, and 2 locking type, stainless steel easy clips. Professional style contact printer has built-in constant-burning red safelight, easy to line up negative and printing paper. Printer also has self-contained "on-and-off" switch for controlling the printing light.

424Q789.....RETAIL, PER SET **$7.95**

ANSCO REDIFLEX CAMERA OUTFIT

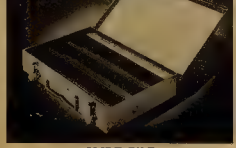
For pictures day or night—by daylight, flood, or flash. Smartly styled, luggage-type, Brown Vinyl covered streamliner case. Case contains: 1 Ansco Rediflex camera with yellow filter, 1 Everready camera case, 1 Anscoflash with batteries, 6 flashlamps, 2 Ansco Supreme film, 1 portrait attachment.

424Q788. .....RETAIL, PER SET **$22.50**

BUILD YOUR OWN ANSCO CAMERA

Something brand new for the hobby builder. Kit contains all the parts (including lens) finished and ready-to-assemble into a sturdy box camera. When completed will take 8 pictures 2¼x3¼" on 120 film. Large, brilliant view finders. Illustrated, easy-to-follow assembly instructions. Easy to assemble with the use of only common hand tools. Combines the number one hobby of photography with the fun and fascination of model building. This home construction kit has tremendous sales possibilities with its appeal to the many hobby builders. Information on picture taking included.

424Q778.....RETAIL, EACH **$3.50**



SLIDE FILE

All metal slide file of sturdy construction. Special channel feature holds slides upright to prevent roughing of paper slide edges. Holds 245 glass slides or 735 Redi-mounts.

424Q790—Retail $5.75.....DEALER COST **$4.20**

Similar above: Holds 168 glass slides, or 500 Redi-mounts.

424Q791—Retail $3.75.....DEALER COST **$2.15**

LOADOMAT-20

DAYLIGHT LOADING AND DEVELOPING TANK For 120 or 620 color, or black and white roll film. Eliminates need for additional reels. No darkroom needed—film is loaded and processed in bright daylight. No skill needed—hands never touch film. Even processing with uniform density of film due to horizontal position of the reel in the tank. Can be used wet—successive rolls of film can be developed with drying tank or reel. Illustrated booklet included.

424Q78—Retail $12.32.....EACH **$9.25**

MARSHALL'S STUDENT COLORING SET

Contains eight ½x2" tubes of color, 1 bottle of P.M.S., 1 roll of cotton, 3 skewers, and 1 directions leaflet Retail $2.50.

424Q624

$1.88

EACH

Academy Set. In addition to the contents of the above set, it includes: 7 additional ½x2" tubes of color, ¾x4" extender, 1 bottle of Marlene and 1 palette. Retail $4.50.

424Q625.....EACH **$3.38**

Spartus Cameras and Accessories

NATIONALLY ADVERTISED

SPARTUS PRESS FLASH CAMERA

Nationally advertised Spartus fixed-focus camera with built-in flash attachment. The only one of its kind on the market. Now equipped with unique built-in testing unit that completely eliminates all guesswork in taking flash pictures—provides perfect synchronization every time. Takes eight 2¼x2¼ pictures on 120 film. 4 flash bulbs included. Retail $14.95.

424Q645 . . . . . EACH **$9.97**

Custom-Built Carrying Case. Retail $4.00.
424Q646 . . . . . EACH $2.67

SPARTUS 35MM CAMERA

This Spartus model is ideal for more advanced camera fans. Coated F:3.5 anastigmat lens and Instromatic focusing mount—4-speed shutter to 1/150 of a second. Enclosed optical viewfinder. Socket for cable release.

424Q655—Retail $29.50. . . EACH **$19.67**

Custom-Built Carrying Case.
424Q811 . . . . . EACH $2.34

SPARTUS BOX CAMERAS

Load, aim, click, and there's a perfect outdoor shot with a Spartus Box Camera. No focusing. Two reversible view finders for horizontal or vertical shooting.

Model 120. Takes eight 2¼x2¼" prints on 120 film. Retail $4.85.
424Q781. . . . . EACH **$3.30**

Model 116. Takes eight 2¼x4¼" on 116 or 616 film. Retail 96.95.
424Q782. . . . . EACH **$4.63**

SPARTUS FULL-VUE TWIN-LENS REFLEX CAMERA

Long a favorite, this Spartus Reflex Camera has a new, brilliant view finder, and new flash attachment. Image is very finder is reproduced exactly as seen. Easy to operate—nothing to adjust or focus. Takes twelve 2¼x2¼" prints on 120 film. Complete with shoulder strap. Uses flash unit shown at right.

Retail $9.98.
424Q601 . . . . . EACH **$6.65**

Custom-Built Carrying Case. Retail $3.00.
424Q628. . . . . EACH $2.60

SPARTUS "35F"

For full color shots or beautiful black and whites. Uses daylight loading 35mm. cartridge film. F:7.7 achromat lens—built-in filter and focusing mount. Synchronized for flash. Priced without flash unit. Uses flash unit shown at right.

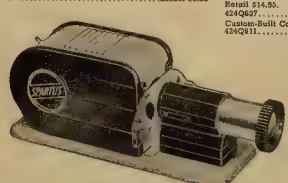
Retail $14.95.
424Q637. . . . . EACH **$9.97**

Custom-Built Carrying Case. Retail $3.50.
424Q811. . . . . EACH $2.34

SPARTUS FLASH UNIT

For year round photography, any time, any place. This is the attachment for use with any Spartus camera that is synchronized for flash. Bakelite housing for the two cell batteries. Mirror-polished metal reflector. Retail $2.50.
424Q776. . . . . EACH **$1.67**

FLASH UNIT WITH 4 FLASH BULBS
Flash unit as above packed with 4 flash bulbs. Retail $3.50.
424Q638. . . . . EACH **$2.33**



NEW IMPROVED SLIDE PROJECTOR

This efficient projector, economy priced, provides brilliant showings of color or black and white slides. **Check these outstanding features:**

- 3" focal length F3.5 lens
- 100 Watt lamp—always cool in operation
- Can be set up in a jiffy
- Slide carrier holds 2x2" glass or cardboard mounted slides
- Easy focusing
- Sharp image to the very edge
- Built-in off and on switch
- Elevator adjustment screw
- 115-120V, AC-DC current
- Complete Underwriters' Laboratories Approval

424Q751—Retail $14.95. . . . . EACH **$9.97**
424Q752—Custom-Built Carrying Case. Retail $3.50. . . . . EACH $2.34
424Q750—Strip-Film Carrier. Retail $2.59. . . . . EACH $1.59

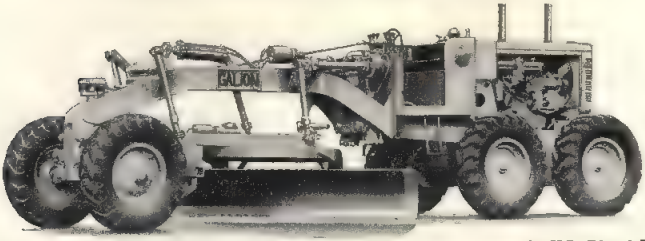
SPARTAFLEX

This reflex camera is tops in its price range. Has automatic dust focusing twin-lens reflex, and flash synchronization. Focusing field as shown in view finder as picture is snapped. 4 lens openings, F:7.7 to F:22. Flash attachment included.

424Q656—Retail $25.00. . . . . EACH **$16.67**
424Q675—Custom-Built Carrying Case. Retail $3.00. . . . . EACH $2.34

MOTOR GRADERS

A Size for Every Type of Grading Operation



No. 118 Extra Heavy-Duty Motor Grader ..... **100 H.P. Diesel Engine**
No. 104 Heavy-Duty Motor Grader ..... **76 H.P. Diesel Engine**
No. 203 Medium Heavy-Duty Motor Grader ..... **70 H.P. Diesel Engine**
No. 303 Medium-Duty Motor Grader ..... **50 H.P. Diesel or Gasoline Engine**

These four Galion Motor Graders meet every requirement for construction and maintenance of roads, airports, dams, housing projects, etc. All blading operations are hydraulically controlled. Rugged all-gear drive. Models 118, 104, and 203 have manual steering with hydraulic booster. Positive tandem four-wheel drive and constant mesh transmission supplied on Models 118 and 104. Models 203 and 303 can be supplied with either single or tandem drive, and either large or small size front tires. Model 303 is available with or without hydraulic booster on steering.

GRADER WEIGHTS

No. 118—23,580 lbs. and up, depending on extra equipment.

No. 104—21,840 lbs. and up, depending on extra equipment.

No. 203—19,300 lbs. (Tandem Drive) or 16 900 lbs. (Single Drive) and up depending on extra equipment.

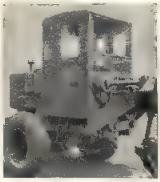
No. 303—13,145 lbs. (Tandem Drive) or 11,400 lbs. (Single Drive) and up, depending on extra equipment.

Scarifier, V-Snow Plow, Bulldozer, and a DeLuxe All-Steel Cab, as illustrated below, are extra equipment.

Accessories

Scarifier

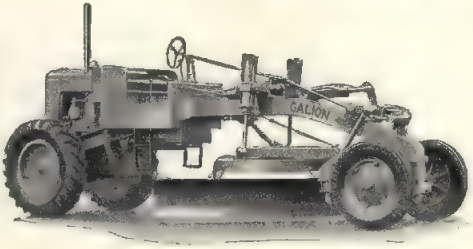
Snow Plow and Wing



All-Steel Cab

No. 402 Maintenance Motor Grader

This lightweight Galion Motor Grader is designed to do efficient construction and maintenance work at the lowest possible cost. Controls are hydraulically operated. Steering is mechanical and hand operated. Equipped with 31 h.p. gasoline engine. Can be furnished with leaning front wheels if desired. Weight, 8,150 lbs. and up, depending on extra equipment. Scarifier, All-Steel Operator's cab, V-Snow Plow, Front End Loader, and many other accessories are obtainable.



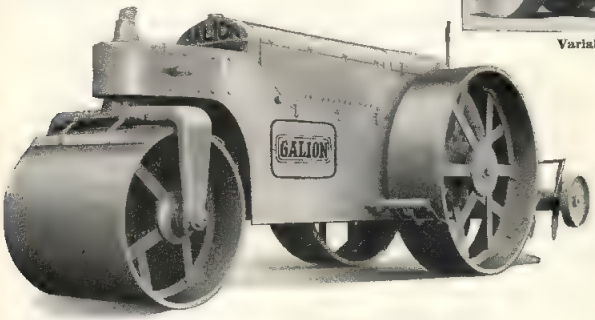
GALION IRON WORKS

3-WHEEL ROLLERS

Cast or Variable Weight Rolls

Galion 3-Wheel Rollers have long been noted for their easy handling and compaction effectiveness. They are basically designed for primary compaction work—but they can be supplied with mats and sprinklers to do high quality finish rolling. They have extra-rugged transmission and spur gear final drive, heavy-duty clutches, electric starter, and heavy-duty gasoline or diesel engine. Hydraulic or manual steering or a combination of both types can be supplied.

Variable Weight "CHIEF"

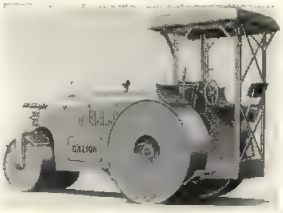


"CHIEF" ROLLER
With Cast Rolls

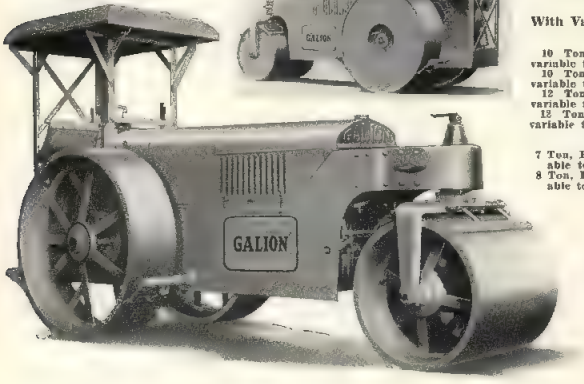
MODELS

Galion 3-Wheel Rollers are available in two models of similar construction and appearance—the large "Chief" and the smaller "Warrior". Both models are available with either special analysis, tough, fine-grain cast iron rolls or steel, ballastable, variable weight rolls.

Variable Weight "WARRIOR"



"WARRIOR" ROLLER
With Cast Rolls and Cab With Sprinkler Tanks in Roof



SIZES

With Cast Rolls:

"CHIEF"

10 and 12 ton sizes.
20" Width Rear Rolls Std.
(24" available.)

"WARRIOR"

6, 7, and 8 ton sizes.
18" Width Rear Rolls Std.
(20" available.)

With Variable Weight Rolls:

"CHIEF"

10 Ton, Rear Rolls 20" wide variable to 11 and 12 ton.
10 Ton, Rear Rolls 24" wide variable to 11, 12, 13 ton.
12 Ton, Rear Rolls 20" wide variable to 13 and 14 ton.
12 Ton, Rear Rolls 24" wide variable to 13, 14, 15 ton.

"WARRIOR"

7 Ton, Rear Rolls 18" wide variable to 8 and 9 ton.
8 Ton, Rear Rolls 18" wide variable to 9 and 10 ton.

EXTRA EQUIPMENT

All-Steel Cab.
Cab Curtains.
Hydraulic Scarifier.
Electric Lights.
Upholstered Seat.
Cowl Sprinkler Tank.
Cab with Sprinkler Tank in roof.
Power-Driven Water Pump.
Combination Hand and Hydraulic Steering.

314-2-51

TANDEM ROLLERS

Variable Weight

Gasoline or Diesel Power

The latest model Galion Tandem has many new or improved features. A few of them are . . . dual operating controls (clutch levers, brake and sprinkler pedals) and movable operator's seat for easy control of roller from either right or left side of platform . . . final drive gears located for close-to-curb work . . . improved streamlining with better visibility for the operator . . . larger sprinkler tanks . . . three hinged grilles for better ventilation of engine compartment and housing. The ventilating grilles and other hinged doors give complete accessibility to all parts.

Galion Variable Weight design provides in one roller the service weight range of a series of conventional tandem rollers —simply by adding water ballast to the rolls.

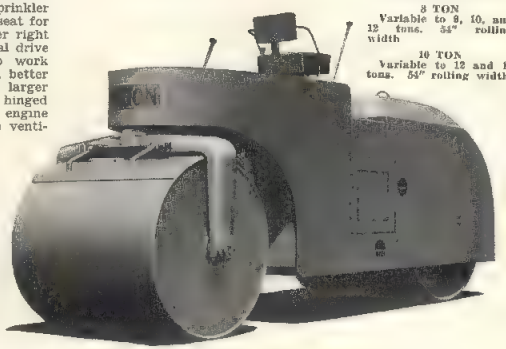
All four sizes have large diameter rolls, hydraulic steering, all-gear drive, and can be supplied with either a 6-cylinder gasoline or a 4-cylinder Diesel engine. Electric starter is standard equipment.

5 TON
Variable to 6, 7, and 8 tons. 50" rolling width.

8 TON
Variable to 9 and 10 tons. 56" rolling width

8 TON
Variable to 9, 10, and 12 tons. 54" rolling width

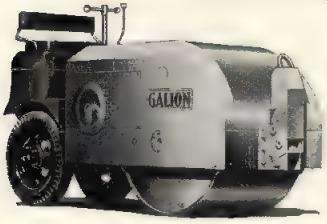
10 TON
Variable to 12 and 14 tons. 54" rolling width.



3-5 Ton Variable Weight TANDEM ROLLERS

The Galion 3-5 ton Tandem gives you a compression range from 118 lbs. up to 180 lbs. per inch of roll width which is 42". Easy operation and dependable performance are assured by such high quality features as—hydraulic steering . . . rugged, constant mesh transmission . . . spur gear final drive . . . Twin Disc, over-center, forward and reverse clutches . . . large diameter compression roll fitted with scrapers, mats, and sprinklers . . . combination service and parking foot brake . . . and an economical 25 h.p. air-cooled engine. Both steering and compression rolls may be filled with water ballast. Transport towing attachment is available as an extra

Variable Weight PORTABLE ROLLER



An economical roller for all kinds of patch work, compacting loose materials, rolling drives, etc. Has the compression effectiveness of a conventional 5-7 ton tandem roller with the added advantage of easy portability. Weight is variable from 7100 lbs. to 9765 lbs. fully ballasted. The improved, stronger truck-hitch has built-in hydraulic lift for easily raising the roll off the ground for speedy transporting from job to job. Hitch folds back compactly against housing when not in use. Other features are hydraulic steering, rugged constant mesh transmission, spur gear final drive, Twin Disc clutches, roll sprinklers, combination service and parking foot brake, and 25 h.p. air-cooled engine.

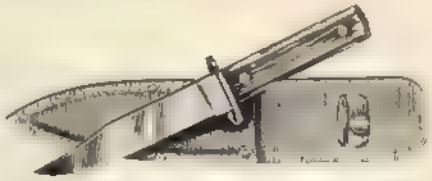
FOR THE WOODSMAN, CAMPER AND HOBBYIST

"Kut-Master" Hunting Knife. 4½" carbon steel blade, mirror polished. 8¼" long. Scored hard rubber black handle with leather sheath. ½ dozen in box.

No. 10C105. Per Dozen **5.25**

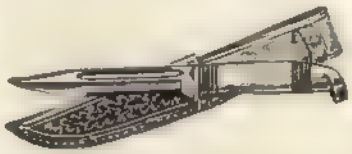
Hunting Knife with Leather Sheath. Narrow Finland type blade of high carbon steel, hardened and tempered. Each knife in leather sheath. Blade 3¾" overall length 7¼". Razor edge, display card.

No. 10C102. Per dozen **7.84**



Hunting Knife in Leather Sheath. Mirror polished 5" clip blade, nickel silver guard, ferrule, brass rivets. Overall length 8¾". Simulated stag plastic handle. Complete with leather sheath. ½ dozen in box.

No. 10C111. Per Dozen **7.84**



"Western" Hunting Knives with Embossed Leather Sheaths. Blades of high carbon chrome vanadium steel. Blades attached to handles by sturdy double tang. Complete with tubular leather sheaths with beautiful embossing.

No. 10C106. Overall size 8¾". Blade 4½". Decorated natural leather handle. Sabre ground blade. Suggested retail 3.50.

Each **1.65**

No. 10C107. Overall size 8". Blade 4⅜". Brilliantly colored long-lasting plastic handles in assorted colors. BLOOD GROOVE Blade. Suggested retail 3.50.

Each **1.90**

Hunting Knife with Leather Sheath. 3" full polished blade of high carbon chrome vanadium steel, hand ground to keen edge. Laminated leather handle with brass and colored fibre trim, drop knob shaped to fit the hand. Complete with genuine leather sheath. Length overall 6½". Packed ½ dozen in carton.

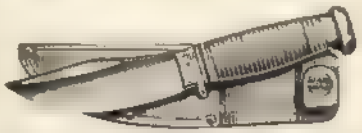
No. 10C125. Each **1.35**

Hunting Knife with Leather Sheath. Full polished 7½" saber blade hand ground to keen lasting edge . . . chrome-plated, rust-resisting. Leather handle with brass and colored fiber trim. Solid aluminum knob, shaped to fit the hand. Complete with pouch type genuine leather sheath. Length overall about 7¾". Packed ½ dozen in box.

No. 10C126. Each **1.50**

Forest Master Set. For Hunting and Camping. Consists of Hunting Knife—4⅛" saber clip blade—length overall 8¼" with genuine leather sheath; full size 4-bladed camp knife, blades of high carbon steel, mirror polished. Simulated stag handles of non-breakable plastic, cap and bolsters of nickel alloy highly polished. Each set in gift box.

No. 10C127. Per Dozen Sets **17.50**
Per Set **1.50**



Marble's Woodcraft Knife. (No. 49) 4½ inch blade, made of the finest steel sharpened to a keen edge, finely polished, adapted for skinning, cutting, slicing, and whittling. Back edge notched for breaking small bones. Leather handle, aluminum bolsters. Complete with leather sheath. ½ dozen in box.

No. 10C913. Each **2.15**

POCKET TOOL KITS

Pocket Tool Kit. A tool chest in compact form—all tools made of fine cutlery steel, hardened and tempered—nickel plated, full mirror polished. Complete with simulated leather case. Contains ten dependable tools: stork pocket knife, can opener, bottle opener, sharp wood chisel, double cut file, hammer, reamer and punch awl, screwdriver, hook remover, and fish scaler. Each set in individual box.

No. 10C109. Per Kit **3.92**

Woodsman's Combination Set. Consists of Hunting Knife—5" Saber clip blade—length overall 8¾". Full size 4-bladed camp knife, all blades of high carbon steel full mirror polished, simulated stag handles of non-breakable plastic. Complete with genuine leather sheath accommodating both knives.

No. 10C128. Per Dozen Sets ..... **OUT**
Per Set ..... **OUT**

Pocket Tool Kit. The ideal gift item—each set comes in fine English Pigskin zipper case. All tools of cutlery steel—hardened and tempered, nickel plated, full mirror polished. Set consists of 10 useful tools—strong pocket knife, can opener, bottle opener, sharp wood chisel, double cut file, hammer, reamer and punch awl, screwdriver, hook remover and fish scaler. Each set in individual box.

No. 10C110. Per Kit **6.15**

"CAMILLUS" KNIFE AND SHARPENING STONE SET

Camillus Knife and Sharpening Stone Combination. (Mfg. No. 63-S). Three-blade junior premium stock knife—clip, sheepfoot, and pen of custom made steel, hardened and stropped. Matte plastic handle, brass lined nickel silver bolsters. Length closed 3⅜". Complete with Norton pocket sharpening stone that quickly restores the keenest edge.

No. 10C64. Per Dozen **18.00**

CAMILLUS has the edge!

made of the finest cutlery steel by skilled craftsmen

"Camillus" Junior Premium Stock Knife (No. 64). Bone Stag handle. Clip, Spey and Spear Pen Blades. Brass linings. Nickel silver bolsters. Length closed 3⅝". Packed ½ dozen in box (no less sold).

No. 10C56. Per dozen.....16 00

"Camillus" Easy-Opener Jack Knife (No. 33). Bone Stag handle. Spear and Pen Blades. Brass linings. Nickel silver bolsters. Length closed 3⅝" Packed ½ dozen in box (no less sold)

No. 10C52. Per dozen.....14.00

"Camillus" Junior Premium Stock Knife (No. 65). Brown Horn Pen(x), Pen(le Clip, Sheepfoot and Spey Blades. Brass linings. Nickel silver bolsters. Length closed 3⅝" Packed ½ dozen in box (no less sold)

No. 10C57. Per dozen.....16.00

"Camillus" Premium Stock Knife (No. 67). Bone Stag handle Clip Sheepfoot and Spey Blades brass linings. Nickel silver bolsters Length closed 3⅝" Packed ½ dozen in box (no less sold)

No. 10C58. Per dozen 18.00

"Camillus" Baby Premium Stock Knife No. 76). Stag handle Clip Spear and Pen Blades Brass linings Nickel silver bolsters (Length) closed 3" Packed ½ dozen in box (No less sold)

No. 10C75. Per Dozen 16 00

"Camillus" Carpenter's and Whittler's Knife No. 72). Bone Stag handle Screw Cap, Pen Clip, and Coping Blades. Brass linings. Nickel Silver bolsters. Length closed 3⅝" Packed ½ dozen in box (no less sold)

No. 10C60. Per dozen.. 20 00

"Camillus" Camp Knife (No. 99). Plastic Stag handle. Spear, Can Opener Punch, and Screwdriver-Caplifter Blades. Brass linings Nickel silver bolsters and shackle Length closed 3⅝". Packed ½ dozen in box (no less sold)

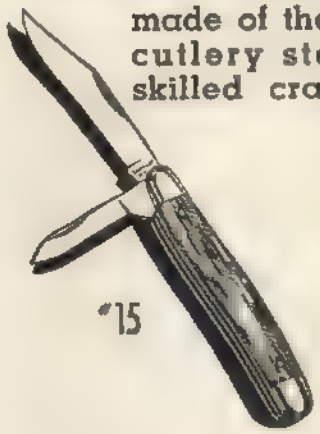
No. 10C63 Per dozen.....16 00

CAMILLUS has the edge!

made of the finest cutlery steel by skilled craftsmen

"Camillus" Serpentine Jack Knife (No. 14). Bone Stag handle. Clip and pen blades. Brass linings. Nickel silver bolsters. Length closed 3⅝". Packed ½ dozen in box (no less sold)

No. 10C47. Per dozen..... **14.00**



"Camillus" Serpentine Jack Knife (No. 15). Red Horn Pyroxylin handle. Clip and pen blades. Brass linings. Nickel silver bolsters. Length closed 3⅝". Packed ½ dozen in box (no less sold).

No. 10C48. Per dozen..... **14.00**

"Camillus" Heavy Equal End Jack Knife (No. 16) Bone Stag handle. Clip and pen blade. Nickel silver bolsters. Brass linings. Length closed 3⅝". Packed ½ dozen in box (no less sold)

No. 10C49. Per dozen..... **14.00**

"Camillus" Senator Pen Knife (No. 41). Bone Stag handle. Spear and pen blades. Brass linings. Nickel silver bolsters. Length closed 3⅛". Packed ½ dozen in box (no less sold).

No. 10C53. Per dozen..... **14.00**

"Camillus" Senator Pen Knife (No. 42). Nu-Pearl (simulated) handle. Spear and pen blades. Brass linings. Nickel silver tips. Length closed 3⅛". Packed ½ dozen in box (no less sold).

No. 10C54. Per dozen..... **12.00**

"Camillus" Slim Senator Pen Knife (No. 43) Nu-Pearl (simulated) handle. Spear and File blades. Brass linings. Nickel silver tips and shackle. Length closed 2½". Packed ½ dozen in box (no less sold)

No. 10C55 Per dozen..... **14.00**

"Camillus" Pony Jack Knife (No. 22). Maine Pyroxylin handle. Sabre clip and pen blades. Brass linings. Nickel silver bolsters. 1 ¾" long when closed Packed ½ dozen in box (no less sold)

No. 10C51. Per dozen. **14.00**

"Camillus" Pony Jack Knife (No. 21). Bone Stag handle Sabre clip and pen blades Brass linings. Nickel silver bolsters. Length closed 2¾" Packed ½ dozen in box (no less sold)

No. 10C50. Per doz.. **14.00**

FIRE EXTINGUISHERS

PYRENE FOAM 4-STAR 2½ Gallon Foam Type

Has seamless drawn one-piece shell and dome and patented solderless collar No side seams nor rivets. Better appearance. Strong—tested to 500 pounds. Discharges about 22 gallons of foam that floats on liquids, clings to ordinary combustibles and smothers the fire. Special safety wall-protection bracket. Labeled by Underwriters' Laboratories and approved by Factory Mutuals

P13	Polished Copper	$43.00
P14	Chrome Plated	49.00
PV1	Extra Pressure Relief Valve	3.00

If above is supplied with pressure relief valve to meet Merchant Marine Council of U S. Coast Guard requirements, add $5.00 to list price

PYRENE FOAM 2½-Gallon Foam Type

This extinguisher, similar in operation to the Pyrene Foam 4-Star, is available at lower cost without sacrifice of effectiveness. Produces about 22 gallons of foam for smothering fires in flammable liquids and ordinary combustibles. It is tested to 350 pounds hydrostatic pressure. Labeled by Underwriters' Laboratories and approved by Factory Mutuals. When equipped with a pressure relief valve it meets the requirements of the Merchant Marine Council of U. S. Coast Guard.

PX13	Standard Finish	$39.00
PX14	Chrome Plated	45.00
PV-1	Extra Pressure Relief Valve	3.00
PRE1	Extra "Py. Foam" Recharge	1.80

If above is supplied with pressure relief valve to meet Merchant Marine Council of U. S. Coast Guard requirements, add $5.00 to list price.

PYRENE 1 AND 1½-QUART Vaporizing Liquid Pump Type

Smothers all classes of incipient fire, particularly fires in flammable liquids and electrical equipment. Light, compact and easily operated. The double-acting pump with rotating pick-up discharges a steady 25 to 30-foot stream from any position in any direction. For motorcycles, airplanes and heavy vehicles, "shock absorber" construction and clamp type brackets for wall or steering post guard against wear from excessive vibration. Labeled by Underwriters' Laboratories and approved by Factory Mutuals. Sold with charge and bracket.

C21	1	Qt. Brass, Wall Bracket	$18.00
C25	1	Qt. Colored Finish, Wall Br.	18.00
C21T	1	Qt Brass, Hvy. Veh., Cl. Br..	19.00
C21TS	1	Qt. Brass, Hvy. Veh., Post Br	21.00
C21P	1	Qt. Brass, Airplane Type	19.00
C24	1	Qt. Chrome, Wall Bracket	21.00
C24T	1	Qt. Chrome, Hvy. Veh., Cl. Br.	22.00
C31	1½	Qt. Brass, Clamp Bracket	21.00
C35	1½	Qt. Col. Finish, Clamp Br..	21.00
C31T	1½	Qt. Brass, Hvy. Veh., Cl Br.	22.00
C34	1½	Qt. Chrome, Clamp Bracket..	25 00
C34T	1½	Qt. Chrome, Hvy. Veh., Cl. Br.	26.00

PYRENE 2-QUART Vaporizing Liquid Pressure Type

For flammable liquid and electrical fires, and incipient fires in ordinary combustibles. Discharged without pumping. Inner chamber, fitted with service air line valve, holds air under pressure; outer contains Pyrene Liquid. Nozzle provides a solid 30-foot stream, fan-shaped spray or temporary shut-off. Air pressure gauge and liquid level glass port facilitate inspection. Available with or without air pump. Labeled by Underwriters' Laboratories and approved by Factory Mutuals.

C103	2 Qt. Pol. Copper, less pump	$54.00
C104	2 Qt. Chrome Pl., less pump	58.00
C105	2 Qt. Col. Finish, less pump	54.00
C103M	2 Qt. Pol. Copper, With Pump.	58.00
C105M	2 Qt. Col. Finish, With Pump..	58.00

PYRENE AUTO TYPE

Quickly kills incipient fires in gasoline, oil, wood, upholstery or electrical system. It is modeled after the one-quart size and has special bracket for mounting on steering post above or below dash—out of the way, yet instantly available. Liquid is nondeteriorating and anti-freezing. Every motorist needs protection and will be proud of this compact, efficient safeguard.

C11	1 Pint Brass, Wall Bracket	$12.00
C11A	1 Pint Brass, Auto Bracket	14.00
C14	1 Pint Chrome, Wall Bracket	15.00
C14A	1 Pint Chrome, Auto Bracket..	17.00

PYRENE 1-GALLON Vaporizing Liquid Pressure Type

This heavy duty unit is for industrial, electrical and vehicular protection against all classes of incipient fire. Discharges a 30 to 40-foot stream by stored air pressure. Outer chamber contains Pyrene Liquid; inner holds air pressure. Has built-in pump and service air line valve for renewing pressure. Has flexible metal, rubber-covered hose, adjustable shut-off nozzle, pressure gauge and glass port for liquid level inspection. Labeled by Underwriters' Laboratories and approved by Factory Mutuals

C42	1 Gal. Pol. Copper, With Pump.	$86.00
C44	1 Gal. Chrome Pl. With Pump..	90.00
C45	1 Gal. Col. Finish, With Pump..	86.00
C43A	1 Gal. Pol. Cop., Without Pump	81.00
C45A	1 Gal. Col Fin Without Pump..	81.00

PYRENE SODA-ACID 2½-Gallon Soda-Acid Type

This sturdy riveted shell extinguisher, operated the same as the Pyrene Soda-Acid 4-Star, is offered at lower cost without sacrifice of efficiency Ejects a 40-foot stream to extinguish fire in ordinary combustible materials. Shell, dome and bottom are cold-rolled copper with seams thoroughly sweated and backed with solder. Side seam is riveted and soldered. Tested to 350 pounds pressure. Labeled by Underwriters' Laboratories and approved by Factory Mutuals.

SX13	Standard Finish	$36.00
SX14	Chrome Plated	42.00
SXR1	2½ Gal. "Pyr. Soda-Acid" Rechg.	.80

PYRENE PUMP TANKS

2½-Gallon Steel and Copper Types

Suited for heated or unheated property where hazards are ordinary freeburning materials—wood, paper and textiles. A double-action, non-syphoning pump throws a 45-foot stream of water or anti-freezing solution. May be protected against freezing to 40° below zero F. by dissolving "Pyrene Freeze Proof" in water. Extinguisher is available with or without charge. Labeled by Underwriters Laboratories and approved by Factory Mutuals

T25	2½ Gal. Steel Green Enam. Fin.	$30.0
T25C	2½ Gal. with Anti-Freeze Charge	32.00
T23	2½ Gallon Polished Copper	39.00
T23C	2½ Gal with Anti-Freeze Charge	41.00
T24	2½ Gallon Chrome Plated	45.00
T24C	2½ Gallon Chrome, with Charge	47.00

PYRENE PUMP TANKS 5-Gallon Steel and Copper Types

Suitable for heated and unheated property where the hazards are ordinary free-burning materials. A double action, non-syphoning pump throws a steady 45-foot stream of water or anti-freezing solution. Made anti-freezing by using Pyrene Freeze Proof. Labeled by Underwriters' Laboratories and approved by Factory Mutuals.

T15	5 Gallon Steel Green Enam Fin.	$32.00
T15C	5 Gal. with Anti-Freeze Charge..	36.00
T13	5 Gallon Polished Copper	43.00
T13C	5 Gal. with Anti-Freeze Charge..	47.00
T14	5 Gallon Chrome Plated	49.00
T14C	5 Gallon Chrome, with Charge	53 00

PYRENE SODA ACID 40 Gal. Extinguishers on Wheels

Large-capacity protection for property consisting of ordinary free-burning material such as lumber yards, camps, textile factories, heated warehouses and small communities. Rugged sheet steel tank has drawn steel bottom and dome. Seams are welded and brazed. Entire tank is coated with hot dipped galvanizing Tested to 400 pounds pressure. Equipped with ¾" hose, brass shut-off nozzle. (Valve on manual extinguishers must first be unscrewed). Labeled by Underwriters' Laboratories and approved by Factory Mutuals.

SD2L	40 Gal. Indoor Loose Stopple	$575.00
SD2M	40 Gal. In. Man. Operation	600.00
SD3M	40 Gal. Outdoor Man. Oper	650.00

PYRENE FOAM
10 and 40-Gallon Extinguishers on Wheels

A large-capacity unit for fires in quantities of flammable liquids and ordinary combustibles. Ejects fire-smothering foam that forms fire-resistive, insulating blanket that deprives the fire of air Manually operated stopple prevents splashing and premature operation. Labeled by Underwriters' Laboratories and approved by Factory Mutuals.

PD1P—10 Gallon Indoor Type $310 00
PD2PN 40 Gallon Indoor Type.... .. 417 00
PD3N—40 Gallon Outdoor Type 450 00
PD4N 40 Gal. Airport Type (8" Tire) 485.00

PYRENE FIRE EXTINGUISHER LIQUID

For refilling vaporizing liquid type extinguishers Non-conductor of electricity. Non-corrosive Anti-Freezing to 50° below zero F.

CR1 1 Pt .....$ .85
CR2 1 Qt. 1.70
CR10 2 Qts. . . 3 40
CR4 1 Gal 6 20

Pyrene Freeze Proof

Dissolved in water, protects against freezing to 40° below zero F.

TR1 5 Gallon Charge...$4.00
TR2 2½ Gallon Charge... 2.00
TR3 4 Gallon Charge .. 3.30

PYRENE SODA-ACID RECHARGES

Insurance authorities recommend that wet chemical (soda-acid) type extinguishers be discharged and recharged annually. These charges contain high grade ingredients, full weight, accurately proportioned.

SXR1 2½ Gallon.....$ .80
SR2 20 Gallon..... 7.50
SR3 40 Gallon..... 9.50

PYRENE FOAM RECHARGES

Specially compounded, accurately proportioned. Foam type extinguishers should be recharged annually.

PXR1 2½ Gal Recharge ....Each $1.80
PR3 10 Gal. Re charge ....Each 7.80
PR5 20 Gal Recharge ....Each 12.00
PR6 40 Gal. Recharge ....Each 18 00

C-O-TWO CARBON DIOXIDE - HAND PORTABLE FIRE EXTINGUISHERS

Recommended Especially for highly inflammable liquids, paints, oils, solvents and alcohol fires, and for the protection of electrical equipment.

Extinguishing Agent—Carbon dioxide, the fastest extinguishing agent, is a dry inert gas stored in cylinders under pressure and snuffs fire out in seconds. It leaves no odor, stain or damage. It is non-corrosive and a non-conductor of electricity and does not deteriorate or freeze

"Squeez-Grip" Valve— Has a "pressure-closing seat," which is sealed against leakage by the tremendous pressure of carbon dioxide stored within its own cylinder. The valve is opened just as fast as you can close your hand as there is nothing to do but squeeze the control lever over the carrying handle. The "Squeez-Grip" type extinguisher is more efficient than a hand-wheel type as there is no "loss of gas" and no "lost motion" while maneuvering around a fire

Construction—Cylinder is of high pressure steel and U. C. C. approved, with a forged brass valve. The discharge hose is of wire reinforced rubber construction with cotton braided cover and die pressed couplings. The discharge horn is a non-conductor, resistant to corrosion or moisture and is of shatterproof construction

Maintenance—Carbon dioxide does not deteriorate. A periodic check of the extinguisher is the only maintenance required Full and empty weights are stamped on nameplate band and valve Recharging stations are conveniently located in all principal cities

Approvals—C-O-TWO portable extinguishers are approved by Underwriters' Laboratories, Inc., Factory Mutuals, and comply with all Federal regulations and requirements.

Type PS-2½
2½ lb Size
Diameter, 3⅞ inches
Height, 17¼ inches
Weight, 9 lbs.
Each $22 00

Type PS-5
5 lb. Size
Height, 16¾ inches
Diameter, 5¼ inches
Weight, 16½ lbs.
Each $29 00

Type PSH-10
10 lb. Size
Height, 22 inches
Diameter, 6⅞ inches
Weight, 34 lbs.
36-inch Hose
Each $48 00

Type PSH-15
15 lb. size
Height, 29 inches
Diameter, 6⅝ inches
Weight, 42 lbs.
36-inch Hose
Each $55 00

Type PSH 20
20 lb. Size
Height, 30½ inches
Diameter, 7 inches
Weight, 55 lbs.
36-inch Hose
Each $62 00

FIRE EXTINGUISHERS

Modern developments in manufacturing, industry and transportation have multiplied fire hazards This record applies not only to the expansion of such giants as electricity, petroleum, basic chemicals and the chemical process industries, but to all types of factories, machine shops, service stations, storage and motorized transport.

Fire protection has advanced to meet increased hazards. Science has studied the chemistry of fire, classified fires according to the nature of combustible materials, and produced first aid protection devices adapted for the quick control and extinguishment of all classes of fires while they are small.

The portable fire extinguisher protects life and prevents property damage which may be caused by fire, if it spreads, or by the application of great quantities of water used to extinguish a large fire.

Approved fire extinguishers often gain for their owner a reduction in fire insurance rates

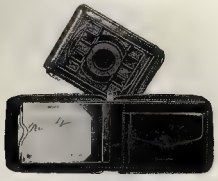
Today, according to available statistics, from 70 to 90 per cent of all the fires that start in industry are put out with extinguishers without the aid of other kinds of protection equipment.

Fire extinguishers made by Pyrene Manufacturing Company, to which the table below refers, are inspected and labeled by the Underwriters' Laboratories and approved by Factory Mutual Laboratories and Merchant Marine Council of U. S. Coast Guard. The approved carbon dioxide type extinguishers listed are manufactured by Pyrene's affiliate, C-O-Two Fire Equipment Company.

Type Trade Name	**Vaporizing Liquid** "Pyrene" Pump	 Pressure	**Foam** "Pyrene Foam" "Pyrene Foam 4-Star"	**Pump Tank** "Pyrene Pump Tank"	**Soda-Acid** "Pyrene Soda Acid" "Pyrene Soda Acid 4-Star	**Cartridge Operated** "Pyrene Water Type" "Pyrene Anti-Freeze"	**Carbon Dioxide** "C-O-Two" "Squeez-Grip"
Chemicals Employed	Pyrene Fire Extinguishing Liquid		Pyrene Foam generating charge dissolved in water	Water and Pyrene Freeze-Proof Charge	Pyrene Soda-Acid gas-generating charge dissolved in water	Gas cartridge and water or Pyrene Freeze-Proof	Carbon dioxide (CO_2 gas
Recharge*	After Use		Yearly	After Use	Yearly	After Use	After Use
Operating Method	Hand Pump	Pressure Valve	Inversion	Hand Pump	Inversion	Invert. Strike plunger to pierce cartridge.	"Squeez-Grip" Type, squeeze. Hand Wheel Type, turn wheel.
Pressure Created By	Pumping action	Compressed air	Chemical reaction	Pumping action	Chemical reaction	Gas expansion	Gas expansion
Stream Range	25 to 30 feet	30 to 40 feet	30 to 40 feet	45 feet	30 to 40 feet	40 to 50 feet	6 feet
Capacity or Size	1-1½ quarts	2 quarts 1 gallon	2½ gallons	2½ gallons-5 gallons	2½ gallons	2½ gallons	2½, 5, 10, 15 and 20 pounds
Quantity of Extinguishing Agent	Indeterminable vapor volume		20 to 22 gallons	2½ gallons-5 gallons	2½ gallons	2½ gallons	Approximately 9 cu. ft. per lb. of compressed gas
Nature of Extinguishing Agent	Vaporizing liquid		Smothering foam	Water	Water	Water or Anti-freeze solution	Carbon dioxide gas
Extinguishing Effect	Blanketing and cooling		Blanketing and cooling	Cooling and drenching	Cooling and drenching	Cooling and drenching	Excluding oxygen
Protection From Freezing Needed?	No. OK to 48° below Zero F.		Yes. Heated cabinet or warm location.	No. "Pyrene Freeze-Proof" charge protects.	Yes. Keep in protected location.	"Pyrene Water-Type" Yes "Pyrene Anti-Freeze" No	No. OK to 40° below Zero F.
Class A Fires Wood, Paper, Textiles, Rubbish, Etc.	Yes Incipient fires, especially indoors		Yes	Yes Excellent	Yes Excellent	Yes Excellent	No
Class B Fires Flammable Liquids, Gasoline, Oils, Etc.	Yes Excellent		Yes Excellent	No	No	No	Yes Excellent
Class C Fires Electrical Equipment and Hazards	Yes Excellent		No	No	No	No	Yes Excellent
Class D Fires Autos, Trucks, Buses, Boats, Etc.	Yes Excellent		Yes If Fire Dept. Type	No	No	No	Yes Excellent

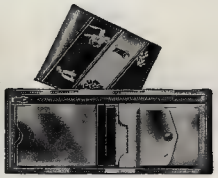
* For most satisfactory results the fire extinguisher owner should use only the charge supplied by the manufacturer of his extinguisher.

Hands

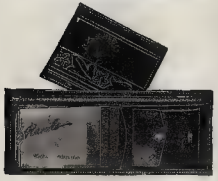


(A) TOOLED AND COLORED

(B) 2 CURRENCY COMPARTMENTS



(C) WESTERN MOTIF



(D) REMOVABLE WINDOWS

(E) LADIES' BILLFOLD

(F) LADIES' BILLFOLD

(G) DOUBLE HAND LACED

(H) SECRET COMPARTMENT

(I) TRIPLE CURRENCY COMPARTMENT

(A) Men's billfold. 3-way zipper closure, for complete safety of contents. Long lined currency compartment; accommodations for 5 passes. Expansion change pocket with flap and snap fastener. Deeply tooled and colored motif. Supplied in smooth Cherrytoned leather.
412L369—Each $1.40.....PER DOZEN **$15.80**

(B) Men's billfold. 2 long currency compartments—one zipper protected. Removable leather pass case with snap fastener—space for 8 passes. 2 card pockets. Expansion change pocket. One piece—non-bulge construction. Tooled and colored motif. Smooth glace Spanish leather.
412L369—Each $1.55.....PER DOZEN **$17.80**

(C) Men's billfold. 2 long currency compartments—one zipper protected. Spaces for 5 passes with removable windows. Can be replaced when worn. Non-bulge construction. Long card pocket. Expansion change pocket. Hand-turned edges. Tooled and colored Western Miniature motif. Smooth Bark Saddle leather.
412L390—Each $1.60.....PER DOZEN **$18.15**

(D) Men's billfold. 2 long currency compartments—one zipper protected. Long card pocket. Spaces for 5 passes. Removable windows. Can be replaced when worn. Non-bulge construction. Hand-turned edges. Deeply tooled, colored motif. Smooth toned calf or shaded Domingo calf.
412L384—Each $2.60.....PER DOZEN **$29.35**

(E) Ladies' wallet. 2 long currency compartments—one zipper protected. Space for 5 passes with removable windows. Can be replaced when worn. Card pocket. Spaces for photograph and postage stamps. Large expansion outside change pocket with gold toned ornament on flap. Snap fastener. Complete safety for contents. Smooth Red or Green lambskin.
412L404—Each $2.10.....PER DOZEN **$23.80**

(F) Ladies' wallet. Long currency compartment 2 card pockets. Tailored expansion change pocket with flap and snap fastener. Removable leather pass case accommodating 8 passes or photographs. Double hand-laced edges on 4 sides. Non-bulge construction for easy folding. Gold-toned outside clasp. Smooth Red or Green lambskin.
412L405—Each $2.80.....PER DOZEN **$32.00**

(G) Men's billfold. 2 long currency compartments with leather divider convertible into a secret compartment for safe concealment of money. Spaces for 5 passes with removable windows. Can be replaced when worn. Long card pocket. Tailored expansion change pocket. Double hand-laced edges. Non-bulge construction. Deeply tooled and colored motif. Smooth toned calf or Antique calf.
412L398—Each $2.80.....PER DOZEN **$32.00**

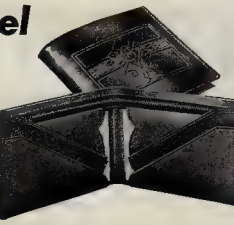
(H) Men's billfold. 2 long currency compartments with leather divider convertible into a secret compartment for safe concealment of money. 2 card pockets. Removable leather pass case accommodating 8 passes. Non-bulge construction. Tailored expansion change pocket. Hand-turned edges. Tooled and colored motif. Smooth Antiqued calf or shaded Domingo calf.
412L398—Each $2.85.....PER DOZEN **$33.75**

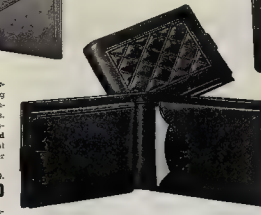
(I) Men's billfold—Triple currency compartment, one zipper protected. Open-face identification space; card pocket. Roomy tailored expansion change pocket. Non-bulge construction. Hand-turned edges. Deeply tooled and colored motif. Supplied in smooth toned calf or Domingo calf.
412L400—Each $2.95.....PER DOZEN **$33.75**

ALL PRICES WHOLESALE NET, LESS 2% DISCOUNT FOR CASH
ALL BILLFOLDS HAVE SUGGESTED RETAIL PRICE TAG

Beau Brummel
BILLFOLDS

Beau Brummel Billfolds represent the finest in leather billfolds. Quality leather expertly stitched in nylon brings out the beauty and symmetry of design. Each billfold is individually boxed.

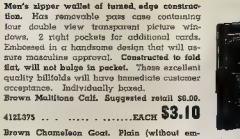




Men's Calfskin wallet set beautifully embossed to give a handsome quilted effect. Conveniently removable pass case contains four double view transparent picture windows. Two tight pockets for additional cards. Silk Moire lining, an extra quality feature. Smart styling in smooth, supple calf that is made to last. Folds flat for easy carrying. Available in a two-piece set of billfold and key case. Individually boxed

Brown Multitone Calf Two-Piece Set.
Suggested retail $7.50.
4141A8 ..... PER SET **$4.20**

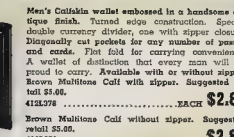
Brown Multitone Calf Billfold only.
Suggested retail $5.00.
412L377 ..... EACH **$3.10**



Men's Calfskin wallet embossed in a handsome antique finish. Turned edge construction. Special double currency divider, one with zipper closure. Diagonally cut pockets for any number of passes and cards. Flat fold for carrying convenience. A wallet of distinction that every man will be proud to carry. Available with or without zipper.

Brown Multitone Calf with zipper. Suggested retail $5.00.
412L378 ..... EACH **$2.80**

Brown Multitone Calf without zipper. Suggested retail $5.00.
412L379 ..... EACH **$2.80**



Men's Calfskin Zipper Wallet. Fine, turned edge construction. Roomy gusset change purse pocket. Tight pocket for cards, open face identification space. **Double currency compartment, one with zipper closure.** Quality leather and expert workmanship are combined in this billfold for all 'round use.

Brown Multitone Calfskin. Suggested retail $3.50.
412L380 ..... EACH **$1.85**

A real value in this Men's Calfskin Zipper Wallet. Fine, turned edge construction. Roomy gusset change purse pocket. Tight pocket for cards, open face identification space. **Double currency compartment, one with zipper closure.** Quality leather and expert workmanship are combined in this billfold for all 'round use.

Brown Multitone Calfskin. Suggested retail $3.50.
412L380 ..... EACH **$1.85**

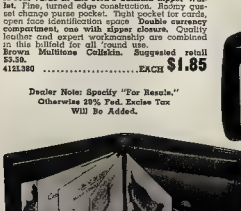
Dealer Note: Specify "For Resale." Otherwise 20% Fed. Excise Tax Will Be Added.

Men's large size wallet in handsome Redwood Cordovan leather. Excellent quality leather combined with expert workmanship. Hand turned edge. **Has double currency compartment, one with zipper pocket.** Four tight pockets to accommodate a number of cards, memos, etc. This flat folding, streamlined billfold is designed to give maximum efficiency, durability, and convenience. Neat appearance.

Redwood Cordovan Leather. Suggested retail $4.00.
412L381P ..... EACH **$2.10**

Black or Brown Hand Grained Morocco. Suggested retail $5.00.
412L381 ..... EACH **$2.80**

ALL PRICES WHOLESALE NET, LESS 2% DISCOUNT FOR CASH

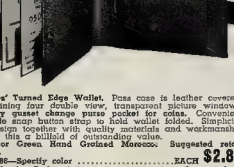


Ladies' genuine leather wallet. Smooth leather expertly fashioned with hand turned edge and nylon stitching. Roomy gusset change purse pocket. **Removable spiral pass case containing four double view transparent picture windows.** Outside strap to hold wallet folded. **Genuine Leather available in choice of: Red and Black, Black and Red, or solid Green. Suggested retail $2.50.**
412L385—Specify color.
EACH **$1.40**

Genuine Calfskin in Red or Green. Suggested retail $5.00.
412L384—Specify color ..... EACH **$2.55**

Three-Way Zipper Wallet. Genuine Calfskin handsomely embossed in an attractive, modern design. Roomy gusset change purse pocket. **Four double view transparent picture windows. Extra open face identification space.** This three-way zipper billfold, a favorite with many people, an important item on the list of merchandise to stock. Assure your customers satisfaction with this all around serviceable and attractive billfold. **Available in choice of colors: Red, Green, Brown Multitone, or Black. Suggested retail $4.00.**

412L385—Specify color . . . . . EACH **$2.10**



Ladies' Turned Edge Wallet. Pass case is leather covered, containing four double view, transparent picture windows. Roomy gusset change purse pocket for coins. Convenient outside snap button strap to hold wallet folded. Simplicity of design together with quality materials and workmanship make this a billfold of outstanding value.

Red or Green Hand Grained Morocco. Suggested retail $5.00.
412L386—Specify color ..... EACH **$2.80**

Combination Red and Black Genuine Leather. Suggested retail $3.50.
412L387—Specify color ..... EACH **$1.85**

BENCH MADE
BILLFOLDS

(K) BRAIDED EDGES

(L) HUNTING DOGS MOTIF

(N) SECRET COMPARTMENT

(P) REMOVABLE PASS HOLDER

(M) SECRET POCKET

(R) 6 CARD POCKETS

(S) SPECIAL THIN FOLD

(T) NON-BULGE CONSTRUCTION

(U) SHADED STEERHIDE

(K) Men's billfold. 3-way zipper closure with 2-toned braided edges. Long lined currency compartment. Spaces for 9 passes. Long card pocket. Tailored expansion change pocket. Artistic Western Miniature motif. Supplied in smooth Bark Saddle leather.

412L391—Each $1.85.....PER DOZEN **$20.30**

(L) Men's billfold. 3 way zipper. Long lined currency compartment. **Spaces for 9 passes.** Tailored expansion change pocket. **Non-bulge construction. Contrasting braided edges. Hunting dogs motif. Deeply tooled and colored motif.** Supplied in smooth Cherrytoned leather.

412L392—Each $1.35.....PER DOZEN **$22.15**

(M) Men's billfold. 2 long currency compartments with leather divider convertible into a secret compartment for safe concealment of money. Open-face identification space. Long card pocket. Tailored expansion change pocket. **Non-bulge construction. Double hand-laced edges 4 sides.** Tooled and hand-painted motif. Smooth Cherrytoned leather.

412L393—Each $2.30.....PER DOZEN **$26.20**

(N) Men's billfold. 2 long currency compartments with leather divider convertible into a secret compartment for safe concealment of money. 2 extra-deep card pockets. **Hand-turned edges.** Expansion bottom to hold contents comfortably. **Folds flat.** Tooled and colored motif. Supplied in smooth toned calf or shaded Domingo calf.

412L395—Each $2.60.....PER DOZEN **$29.35**

(P) Men's billfold. 3-way zipper. Long lined currency compartment. 2 card pockets. Removable leather pass holder accommodating 8 passes. **Tailored expansion change pocket.** Tooled and colored motif. Supplied in shaded Domingo or Black calf.

412L396—Each $2.70.....PER DOZEN **$30.60**

(R) Men's billfold. 2 long currency compartments—one zipper protected. 6 card pockets. **Non-bulge construction. Hand-turned edges 4 sides.** Folds thin. Supplied in smooth Black or Brown calf.

412L397—Each $2.60.....PER DOZEN **$29.35**

(S) Men's billfold. 2 long currency compartments with leather divider convertible into a secret compartment for safe concealment of money. Spaces for cards, passes, stamps, etc. Leather swing pocket, hinged at top, reveals 2 open face pass windows. **Non-bulge construction. Hand-turned edges 4 sides.** Folds thin. Smooth Black or Brown calf.

412L401—Each $3.10.....PER DOZEN **$35.20**

(T) Men's billfold. 2 long currency compartments—one zipper protected. **Non-bulge construction.** 3 card pockets. Removable leather pass case with accommodations for 8 passes or photographs **Double hand-laced edges.** Supplied in smooth natural Brown calf. Artistic tooled and colored motif

412L402—Each $3.35 .....PER DOZEN **$38.15**

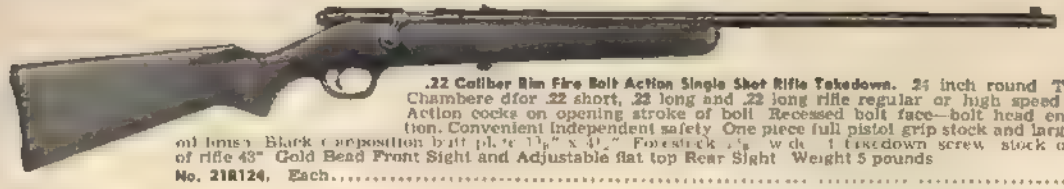
(U) Men's billfold. 2 long currency compartments—one zipper protected. 2 long card pockets. Roomy tailored expansion change pocket. Removable leather pass case with accommodations for 9 passes or photographs **Double hand-laced edges 4 sides.** Supplied in shaded steerhide with deeply tooled and colored motif.

412L403—Each $3.50.....PER DOZEN **$40.10**

Dealer Note: Specify "For Resale." Otherwise 20% Fed. Excise Tax Will Be Added.

EACH BILLFOLD INDIVIDUALLY BOXED

SAVAGE RIFLES AND SHOTGUNS

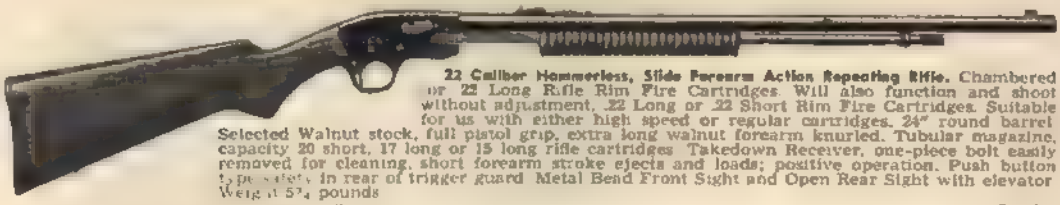


MODEL 3

.22 Caliber Rim Fire Bolt Action Single Shot Rifle Takedown. 24 inch round Tapered barrel with crowned muzzle. Chambered for .22 short, .22 long and .22 long rifle regular or high speed cartridges. Plated bolt and trigger. Action cocks on opening stroke of bolt. Recessed bolt face—bolt head encased—positive extraction and ejection. Convenient independent safety. One piece full pistol grip stock and large, broad forestock of selected walnut oil finish. Black composition butt plate 1⅞" x 4½". Forestock 1⅝" wide at takedown screw. stock over-all length 28¼". Over-all length of rifle 43". Gold Bead Front Sight and Adjustable flat top Rear Sight. Weight 5 pounds.

No. 21R124. Each **12.74**

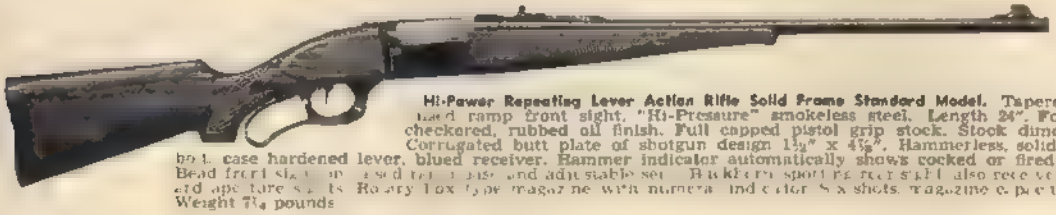
MODEL 29 REPEATING RIFLE



22 Caliber Hammerless, Slide Forearm Action Repeating Rifle. Chambered for 22 Long Rifle Rim Fire Cartridges. Will also function and shoot without adjustment, .22 Long or .22 Short Rim Fire Cartridges. Suitable for use with either high speed or regular cartridges. 24" round barrel. Selected Walnut stock, full pistol grip, extra long walnut forearm knurled. Tubular magazine, capacity 20 short, 17 long or 15 long rifle cartridges. Takedown Receiver, one-piece bolt easily removed for cleaning, short forearm stroke ejects and loads; positive operation. Push button type safety in rear of trigger guard. Metal Bead Front Sight and Open Rear Sight with elevator. Weight 5¾ pounds.

No. 21R163. Each **36.26**

MODEL 99EG HIGH POWERED RIFLE

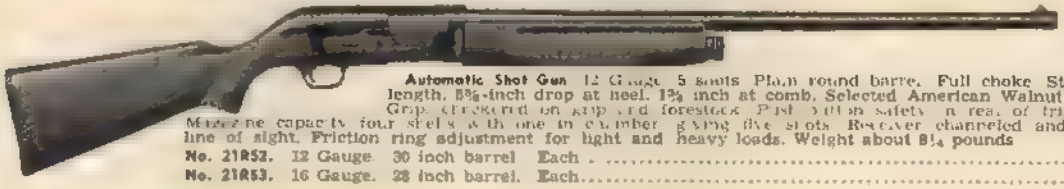


Hi-Power Repeating Lever Action Rifle Solid Frame Standard Model. Tapered, medium weight round barrel with high ramp front sight, "Hi-Pressure" smokeless steel. Length 24". Fore-end and stock of selected walnut, checkered, rubbed oil finish. Full capped pistol grip stock. Stock dimensions: 2⅜" drop at heel, 13" long. Corrugated butt plate of shotgun design 1⅝" x 4⅛". Hammerless, solid breech, lever action. Polished breech bolt, case hardened lever, blued receiver. Hammer indicator automatically shows cocked or fired position of hammer. Matted trigger. Bead front sight on ramp and adjustable rear sight. Buckhorn sporting rear sight also receiver top drilled and tapped for all standard aperture sights. Heavy box type magazine with numerical indicator 5 x shots, magazine capacity five cartridges with one in chamber. Weight 7¼ pounds.

No. 21R38. 250 caliber Each ..... **TEMP. OUT**

No. 21R39. 300 caliber Each ..... **TEMP. OUT**

MODEL 755 AUTOMATIC SHOT GUN

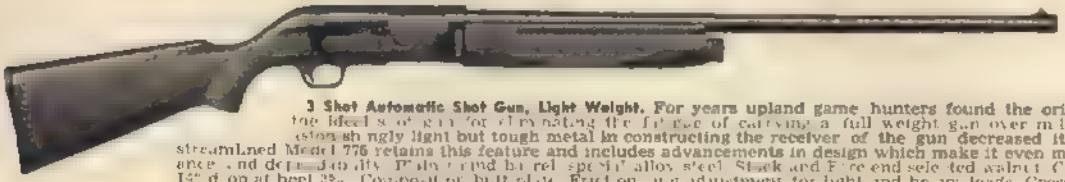


Automatic Shot Gun. 12 Gauge. 5 shots. Plain round barrel. Full choke. Stock 14 inch length, 2⅝-inch drop at heel, 1⅝ inch at comb. Selected American Walnut. Full pistol Grip, checkered on grip and forestock. Push button safety in rear of trigger guard. Magazine capacity four shells with one in chamber, giving five shots. Receiver channeled and matted in line of sight. Friction ring adjustment for light and heavy loads. Weight about 8¼ pounds.

No. 21R52. 12 Gauge. 30 inch barrel. Each **80.23**

No. 21R53. 16 Gauge. 28 inch barrel. Each **80.23**

MODEL 775 LIGHTWEIGHT AUTOMATIC SHOT GUN

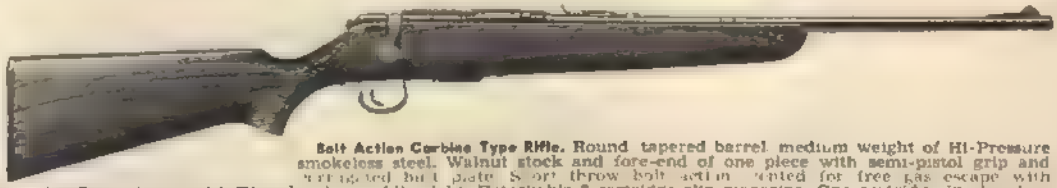


3 Shot Automatic Shot Gun, Light Weight. For years upland game hunters found the original Savage Lightweight Automatic the ideal shot gun for eliminating the fatigue of carrying a full weight gun over miles of rough country. The use of an astonishingly light but tough metal in constructing the receiver of the gun decreased its weight by a full pound. The new streamlined Model 776 retains this feature and includes advancements in design which make it even more outstanding for quality, performance and dependability. Plain round barrel special alloy steel. Stock and Fore-end selected walnut. Checkered. Full pistol grip stock length 14" drop at heel 2⅝. Composition butt plate. Friction ring adjustment for light and heavy loads. Cross bolt safety at rear of trigger guard. Solid breech top of receiver matted. Weight 7 pounds.

No. 21R156. 12 Gauge. 30 inch barrel Each ..... **TEMP. OUT**

No. 21R157. 16 Gauge 28 inch barrel Each ..... **TEMP OUT**

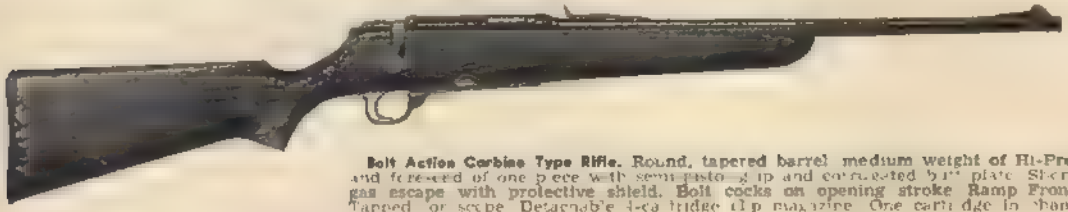
MODEL 340 30 30 CALIBER BOLT ACTION RIFLE



Bolt Action Carbine Type Rifle. Round tapered barrel medium weight of Hi-Pressure smokeless steel. Walnut stock and fore-end of one piece with semi-pistol grip and corrugated butt plate. Short throw bolt action vented for free gas escape with protective shield. Bolt cocks on opening stroke. Ramp front sight. Disc elevator middle sight. Detachable 3-cartridge clip magazine. One cartridge in chamber, making four shot capacity. Independent thumb operated safety which locks sear and bolt. Conveniently located at right rear end of receiver. Weight 8¾ pounds. Over-all length 40".

No. 21R158. Each **36.56**

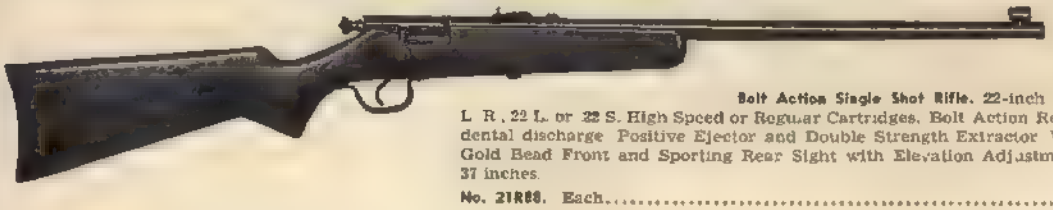
MODEL 342 HORNET CALIBER



Bolt Action Carbine Type Rifle. Round, tapered barrel medium weight of Hi-Pressure smokeless steel. Walnut stock and fore-end of one piece with semi-pistol grip and corrugated butt plate. Short throw bolt action vented for free gas escape with protective shield. Bolt cocks on opening stroke. Ramp Front Sight. Disc Elevator Middle Sight. Tapped for scope. Detachable 4-cartridge clip magazine. One cartridge in chamber, making 5-shot capacity. Independent, thumb operated safety, which locks sear and bolt. Conveniently located at right rear end of receiver. Weight 6¾ pounds.

No. 21R150. Each **36.61**

SHOTGUNS AND RIFLES – STEVENS

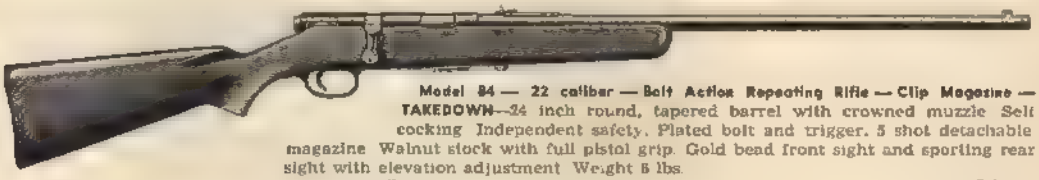


MODEL 15
22 CALIBER

Bolt Action Single Shot Rifle. 22-inch Round, Tapered. Take-down. For .22 L R, 22 L or 22 S. High Speed or Regular Cartridges. Bolt Action Rebounding Safety Lock Prevents accidental discharge Positive Ejector and Double Strength Extractor Walnut Finish Stock. Full Pistol Grip Gold Bead Front and Sporting Rear Sight with Elevation Adjustment. Weight 4 pounds. Over-all about 37 inches.

No. 21R88. Each..... 11.08

MODEL 84
22 CALIBER

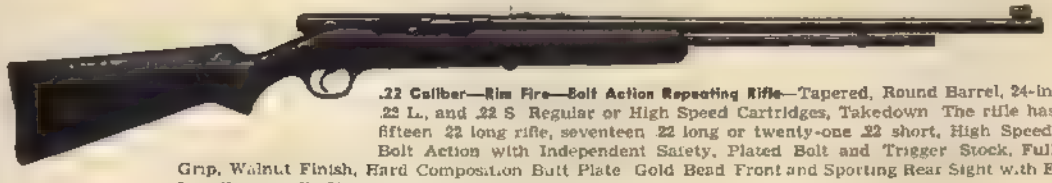


Model 84 — 22 caliber — Bolt Action Repeating Rifle — Clip Magazine — TAKEDOWN—24 inch round, tapered barrel with crowned muzzle Self cocking Independent safety. Plated bolt and trigger. 5 shot detachable magazine Walnut stock with full pistol grip Gold bead front sight and sporting rear sight with elevation adjustment Weight 6 lbs.

No. 21R94. Each..... 18.97

Model 84-S—The same specifications as Model 84 shown above except fitted with Savage Micro Peep Sight and Hooded Front Sight.

No. 21R540. Each..... 21.76



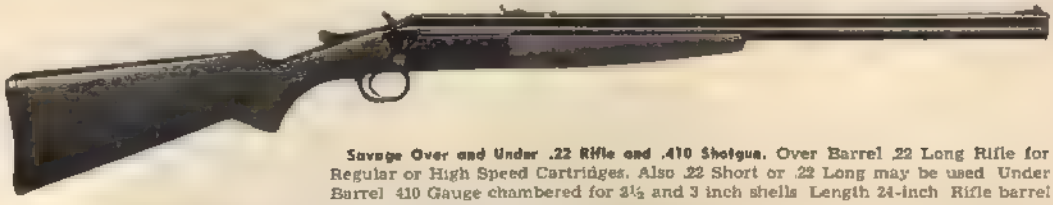
MODEL 87
22 AUTOMATIC

.22 Caliber—Rim Fire—Bolt Action Repeating Rifle—Tapered, Round Barrel, 24-inch with Crowned Muzzle, for .22 L, R., .22 L, and .22 S Regular or High Speed Cartridges, Takedown The rifle has a tubular magazine with capacity of fifteen .22 long rifle, seventeen .22 long or twenty-one .22 short, High Speed or Regular Cartridges. Self Cocking, Bolt Action with Independent Safety, Plated Bolt and Trigger Stock, Full size, Oval Military Style, Full Pistol Grip, Walnut Finish, Hard Composition Butt Plate Gold Bead Front and Sporting Rear Sight with Elevation Adjustment. Weight 6 pounds. Length over-all 43½ inches.

No. 21R86. Each..... 27.14

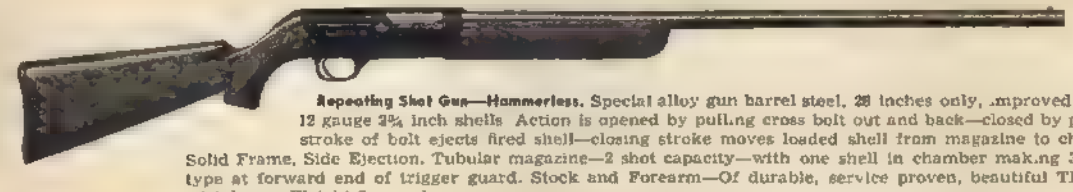
No. 21R90. Model 85. Same as above with clip magazine. Each..... 24.50

SAVAGE MODEL 24
22-410 OVER & UNDER



Savage Over and Under .22 Rifle and .410 Shotgun. Over Barrel .22 Long Rifle for Regular or High Speed Cartridges. Also .22 Short or .22 Long may be used Under Barrel .410 Gauge chambered for 2½ and 3 inch shells Length 24-inch Rifle barrel "precision" rifled for accuracy, Shotgun barrel bored full choke Takedown Ramp Front Sight and Sporting Rear Sight with Elevation Adjustment Stock and fore-end Selected Walnut, full pistol grip checkered Fluted comb. Single Trigger Action, Low Rebounding Hammer Separate Extractors. Top Lever operates either to the right or left to open action. Weight 6 pounds.

No. 21R155. Each..... 29.60

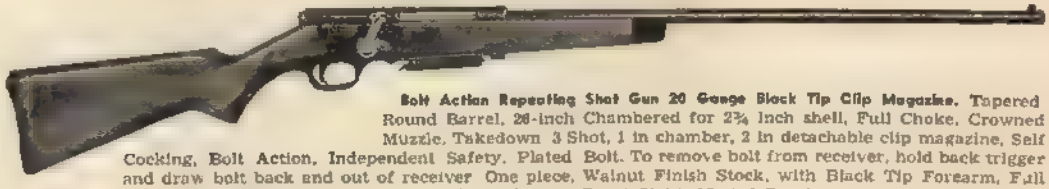


MODEL 124
REPEATING SHOT GUN

Repeating Shot Gun—Hammerless. Special alloy gun barrel steel, 28 inches only, improved cylinder, full choke. Chambered for 12 gauge 2¾ inch shells Action is opened by pulling cross bolt out and back—closed by pushing bolt forward and in Opening stroke of bolt ejects fired shell—closing stroke moves loaded shell from magazine to chamber Polished and blued receiver Solid Frame, Side Ejection. Tubular magazine—2 shot capacity—with one shell in chamber making 3 shot repeater. Safety—Push button type at forward end of trigger guard. Stock and Forearm—Of durable, service proven, beautiful TENITE. Fine checkering—capped full pistol grip. Weight 7 pounds.

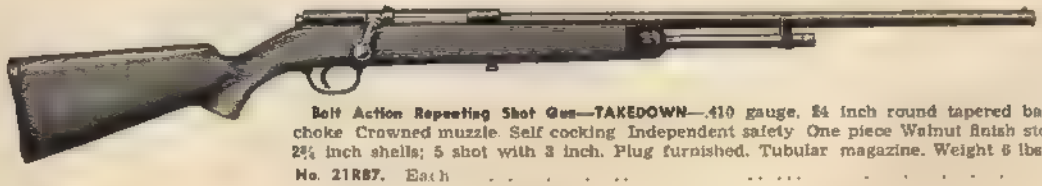
No. 21R141. Each..... TEMP. OUT

MODEL 258
REPEATING
5HOT GUN



Bolt Action Repeating Shot Gun 20 Gauge Black Tip Clip Magazine. Tapered Round Barrel, 26-inch Chambered for 2¾ inch shell, Full Choke, Crowned Muzzle, Takedown 3 Shot, 1 in chamber, 2 in detachable clip magazine, Self Cocking, Bolt Action, Independent Safety. Plated Bolt. To remove bolt from receiver, hold back trigger and draw bolt back and out of receiver One piece, Walnut Finish Stock, with Black Tip Forearm, Full Pistol Grip, Hard Compression Butt Plate. Shotgun Front Sight, Matted Receiver.

No. 21R122. Each..... 21.71



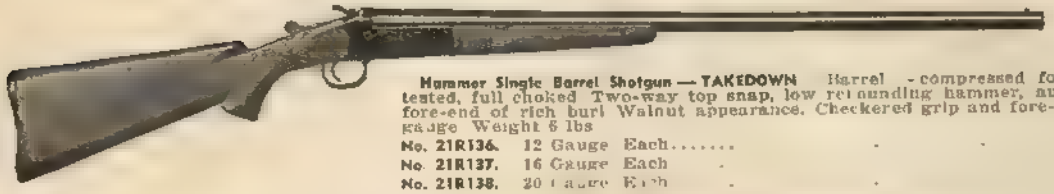
MODEL 59
410-BOLT ACTION REPEATER

Bolt Action Repeating Shot Gun—TAKEDOWN—.410 gauge, 24 inch round tapered barrel. Chambered for 3 inch shell. Full choke Crowned muzzle. Self cocking Independent safety One piece Walnut finish stock with black tip forearm, 6 shot with 2½ inch shells; 5 shot with 3 inch. Plug furnished. Tubular magazine. Weight 6 lbs

No. 21R87. Each..... 23 62

No 21R135. Model 58 Same as above with clip magazine. Each..... 19.40

STEVENS SHOTGUNS

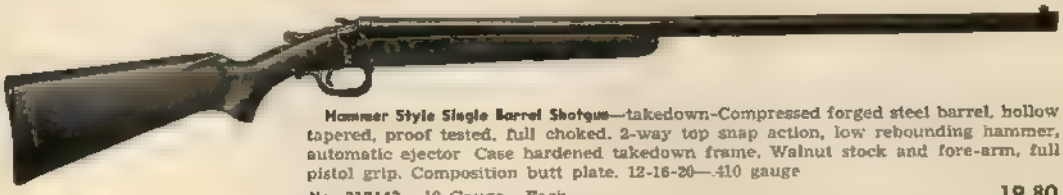


MODEL 94 SINGLE BARREL SHOT GUN

Hammer Single Barrel Shotgun — TAKEDOWN Barrel - compressed forged steel, hollow tapered, proof tested, full choked Two-way top snap, low rebounding hammer, automatic ejector Wood stock and fore-end of rich burl Walnut appearance. Checkered grip and fore-end and fluted comb 12-16-20-.410 gauge Weight 6 lbs

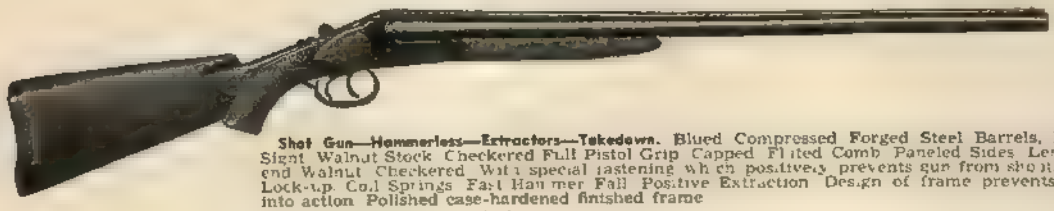
No. 21R136.	12 Gauge	Each	18.82
No. 21R137.	16 Gauge	Each	18.82
No. 21R138.	20 Gauge	Each	18.82
No. 21R139	410 Gauge	Each	18.82

MODEL 107 SINGLE BARREL SHOT GUN



Hammer Style Single Barrel Shotgun—takedown-Compressed forged steel barrel, hollow tapered, proof tested, full choked. 2-way top snap action, low rebounding hammer, automatic ejector Case hardened takedown frame. Walnut stock and fore-arm, full pistol grip. Composition butt plate. 12-16-20—410 gauge

No. 21R142.	12 Gauge.	Each	19.80
No. 21R143.	16 Gauge.	Each	19.80
No. 21R144.	20 Gauge.	Each	19.80
No. 21R145.	.410 Gauge.	Each	19.80

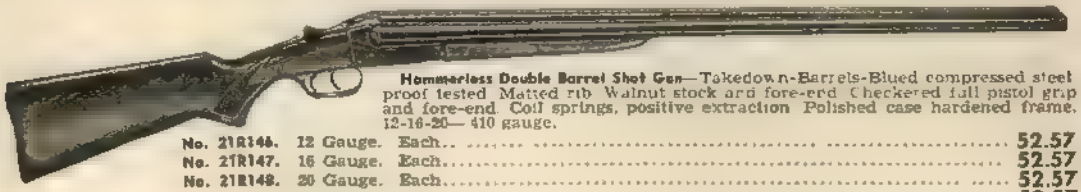


MODEL 311 DOUBLE BARREL SHOT GUN

Shot Gun—Hammerless—Extractors—Takedown. Blued Compressed Forged Steel Barrels, Proof Tested Matted Rib, one Bead Sight Walnut Stock Checkered Full Pistol Grip Capped Fluted Comb Paneled Sides Length 14 inches, drop 2¾ inches. Fore-end Walnut Checkered With special fastening which positively prevents gun from shooting loose Hammerless Action Rugged Lock-up Coil Springs Fast Hammer Fall Positive Extraction Design of frame prevents powder residue from blowing back into action Polished case-hardened finished frame

No. 21R159.	12 Gauge.	Each	49.35
No. 21R160.	16 Gauge.	Each	49.35
No. 21R161.	20 Gauge.	Each	49.35
No. 21R162.	.410 Gauge.	Each	49.35

MODEL 530 DOUBLE BARREL SHOT GUN



Hammerless Double Barrel Shot Gun—Takedown-Barrels-Blued compressed steel proof tested Matted rib Walnut stock and fore-end Checkered full pistol grip and fore-end. Coil springs, positive extraction Polished case hardened frame. 12-16-20— 410 gauge.

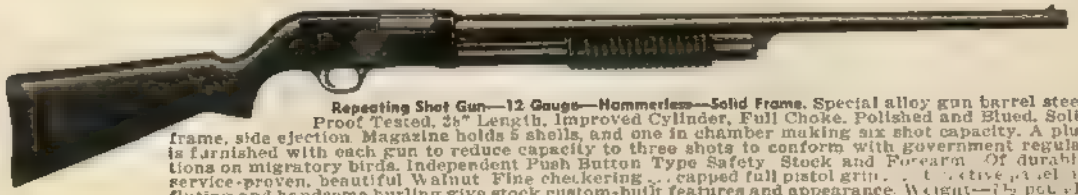
No. 21R146.	12 Gauge.	Each	52.57
No. 21R147.	16 Gauge.	Each	52.57
No. 21R148.	20 Gauge.	Each	52.57
No. 21R149.	.410 Gauge.	Each	52.57

MODEL 620 PUMP ACTION REPEATING SHOT GUN

Hammerless Pump Action Repeating Shot Gun—TAKEDOWN 6 Shots Compressed forged steel proof tested barrel. Drop forged receiver solid breech Hammerless Visible locking bolt, Safety firing pin Independent Safety, side ejection, checkered American Walnut Stock and slide handle Plug furnished 12-16-20 gauge

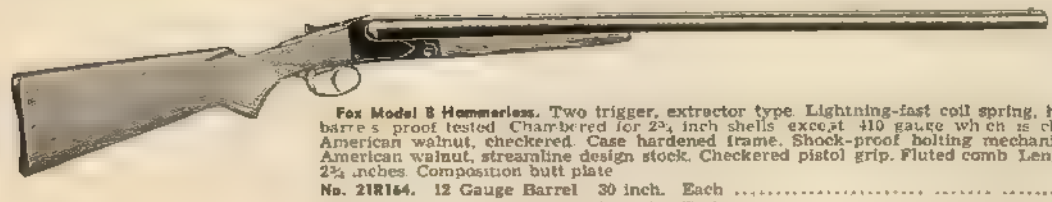
No. 21R43.	12 Gauge	Each	64.10
No. 21R40.	16 Gauge	Each	64.10
No. 21R42.	20 Gauge	Each	64.10

MODEL 820 REPEATING SHOT GUN



Repeating Shot Gun—12 Gauge—Hammerless—Solid Frame. Special alloy gun barrel steel, Proof Tested, 28" Length, Improved Cylinder, Full Choke. Polished and Blued. Solid frame, side ejection Magazine holds 5 shells, and one in chamber making six shot capacity. A plug is furnished with each gun to reduce capacity to three shots to conform with government regulations on migratory birds. Independent Push Button Type Safety Stock and Forearm Of durable service-proven, beautiful Walnut Fine checkering ... capped full pistol grip ... protective panel inlay, fluting and handsome burling give stock custom-built features and appearance. Weight—7½ pounds.

No. 21R152. Each 45.66



FOX MODEL B DOUBLE BARREL SHOT GUN

Fox Model B Hammerless. Two trigger, extractor type Lightning-fast coil spring, hammer and sear design. Forged steel barrels proof tested Chambered for 2¾ inch shells except 410 gauge which is chambered for 3 inch shells Fore-end American walnut, checkered. Case hardened frame. Shock-proof bolting mechanism which provides positive lock-up. American walnut, streamline design stock. Checkered pistol grip. Fluted comb Length about 14 inches; drop at heel about 2¾ inches. Composition butt plate

No. 21R164.	12 Gauge Barrel	30 inch. Each	60.46
No. 21R165.	16 Gauge Barrel.	28 inch. Each	60.46
No. 21R166.	20 Gauge Barrel.	28 inch. Each	60.46
No. 21R167.	.410 Gauge Barrel.	26 inch. Each	60.46

Schwinn Built BICYCLES

Men's fully streamlined design. Constructed from finest oval steel tubing. Removable seat post clamp. Built-in parking stand. Built-in mud-guard and chain guard brackets, drop-out rear fork ends. New Departure or Bendix coaster brake. Double bar 18" frame with 26" wheel, 26"x2⅛" Cord Balloon tires. Mesinger padded saddle. Finished in finest synthetic enamels in Light Red with Ivory trim.

No. 60A10. Each.....41.25

Fully streamlined ladies' frame with 6" head, same as men's. Men's and ladies' front fork now standard and interchangeable. Finished in synthetic enamels in Light Blue with Ivory trim.

No. 60A11. Each.....41.25

Men's completely equipped in streamlined design. With tank containing horn. Luggage carrier mounted directly to frame. Fender torpedo type Headlight, self contained. Constructed of fine oval steel tubing. Removable seat post clamp. Built-in parking stand. Built-in mud guards and chain guard brackets. Drop-out rear fork ends. New Departure or Bendix coaster brake. Double bar 18" frame with 26" wheel, 26"x2⅛" Cord Balloon tires. Mesinger padded saddle. Finished in finest synthetic enamels in Light Red with Ivory trim.

No. 60A8. Each.....48.50

Ladies' Model, as above, finished in Light Blue with Ivory trim.

No. 60A9. Each.....48.50

Men's De Luxe Model. Cantilever bridge truss fully streamlined frame. Finest steel tubing. Removable seat post clamp, built-in parking stand, built-in mud and chain guard mountings. New drop-out rear fork ends. Tubular electronic construction, no brazing. New Departure or Bendix Coaster Brake. Special embossed design tank contains horn. Built-in fender light, self contained, no wiring. Luggage carrier mounted directly to frame. Double bar 18" frame. 26"x2⅛" Cord Balloon tires. Mesinger De Luxe padded saddle. Stimsonite safety reflector. Finished in finest quality synthetic enamel in Dark Red with Ivory trim.

No. 60A45. Each.....57.25

De Luxe Ladies' Model. Cantilever bridge truss fully streamlined ladies' model with 6" head. Finest steel tubing construction. Removable seat post clamp, built-in parking stand, built-in mud and chain guard mountings. New drop-out rear fork ends. Tubular electronic construction, no brazing. New Departure or Bendix Coaster Brake. Special embossed design tank, contains horn. Built-in fender light, self contained, no wiring. Luggage carrier mounted directly to frame. Double bar 18" frame. 26"x2⅛" Cord Balloon tires. Mesinger De Luxe padded saddle. Stimsonite safety reflector. Finished in finest quality synthetic enamel in Dark Blue with Ivory trim.

No. 60A44. Each.....57.00

New World Lightweight Model. 21" frame built from best grade one-inch diameter seamless Drawn Butted steel tubes. Double tapered, formed-tip fork sides, forged steel crown, tapered-wall fork stems, electronic construction, no brazed joints. Schwinn one-piece crank set, flanged sprocket, 44 teeth, Schwinn-Built front hub, 7/32" diameter steel balls in bearings. New Departure or Bendix rear hub. Special quality B Model head. New World Tourist handlebar. Schwinn Constructed handlebar stem. Schwinn built-in parking stand. Special lightweight mudguards. Special lightweight chain, 44 pitch to match 8-6 tubular rims. 26"x1⅜" Whirlwind tires. Schwinn Tourist saddle. Rubber pedals. Finished in finest quality synthetic enamel in Red with Ivory trim.

No. 60A6. Each.....45.25

Ladies' Model, as above, finished in Blue with Ivory trim.

No. 60A7. Each.....45.25

Men's Front Wheel Brake Model. Complete with spring fork, front wheel brake, cycle lock and white wall tires. Exclusive patented cantilever construction, fully streamlined design, Schwinn-built steel tubing, removable seat post clamp. Built-in parking stand. Built-in mud guard and chain guard brackets, drop-out rear fork ends. New Departure or Bendix coaster brake. Double bar 18" frame with 26" wheel, 26"x2⅛" Cord Balloon tires. Special embossed design tank with horn and battery container. Mesinger De Luxe sponge rubber padded saddle. Streamlined luggage carrier. Finished in synthetic enamels in Light Red, Ivory trim.

No. 60A14. Each.....66.25

Ladies' Model same as above, finished in Light Blue with Ivory trim.

No. 60A15. Each.....66.25

SCHWINN BUILT "COMPETITION BIKE"

Made to Meet the Competition on Low Priced Models now being shown — Full streamline design, truss brace, welding. Steel forged sprocket and fork. Swivel type Bendix Messenger front brake. Coaster Rear Hub. Heavy Mesinger stitched saddle with coil springs. Rear fender guard. Balloon tires. Rear fender is formed to fit tire. Baked enamel finish in light blue

No. 60A16. Boys' Model. Each 38.25
No. 60A17. Girls' Model. Each 38.25

Swivel Bracket Tail Light. With R.-Power bulb. Has chrome finished highly polished white enamel finish taillight. Has 1½" brilliant red lens. Its swivel bracket permits installation anywhere on fork, frame or handlebars

No. 50A75. Dozen 7.20

Bicycle Headlight with crystal convex glass lens. Made of brass with white enamel finish, nickel reflector. New design. No wiring necessary, just insert single flashlight battery and lights ready for use. Has a universal design bracket which can be installed to handlebar or fork

No. 50A76. Dozen 7 20

Streamlined Headlight. A complete unit with switch and bracket for attaching. Made of metal and finished in white enamel. Has convex glass lens and silver plated reflector.

No. 50A83. Dozen..... 9 00

"Silver Metro" Bicycle Hand Horn. Mechanically Auto-Tone signal produced on both up and down stroke of plunger. White enamel finish. Mounted on a swivel bracket permits installation anywhere. Each in a box.

No. 50A16. Dozen 7 50

Fully streamlined frame. Constructed from finest oval steel tubing. Removable seat post clamp. Built-in parking stand. Built-in chain and mudguard brackets are forged. Sprocket has 44 teeth. New Departure or Bendix coaster brake. 26"x2¼" Cord Balloon tires. Messinger padded saddle. Finished in synthetic enamels in Light Blue with Ivory trim for girls, Light Red with Ivory trim for boys.

BOYS' JUNIOR MODELS

With 13" frame and 20" Wheel
No. 60A2. Each 39 25

With 16" frame and 24" Wheel
No. 60A4. Each 40.50

As above equipped with tank containing horn. Fender torpedo type headlight, self contained. Without luggage carrier

With 13" frame and 20" Wheel
No. 60A18. Each 45 25

With 16" frame and 24" Wheel
No. 60A19. Each 46 00

GIRLS' JUNIOR MODELS

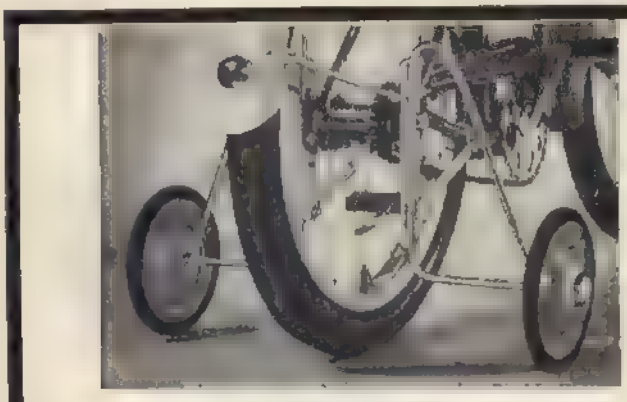
With 13" frame and 20" Wheel
No. 60A3. Each 39.25

With 16" frame and 24" Wheel
No. 60A5. Each 40 50

As above equipped with tank containing horn. Fender torpedo type headlight, self contained. Without luggage carrier

With 13" frame and 20" Wheel
No. 60A20. Each 45 25

With 16" frame and 24" Wheel
No. 60A21. Each 46 00



SCHWINN CYCLE AID

A carefully engineered, thoroughly tested device built to perform its duty perfectly without binding, twisting or groove of a bushing. Will fit quickly, easily and firmly to 12", 20" and 24" juvenile bicycles of any make

Retail 5.75
No. 60A1
Each $3.50

Make any Bike into a "Motor Bike"

TRAVIS BIKE MOTOR

INSTALL ON ANY BICYCLE IN LESS THAN 30 MINUTES

Only a screw driver and pliers needed for the first time. Mounts on front fork, away from rider. Has 4 self adjusting thumb screw clamps.

HOW IT WORKS—Direct drive onto front tire by SPECIAL DRIVING STONE. No slipping, no excessive wear. No belts, pulleys or gears. To engage or disengage motor simply push down or lift the special fender. For European and front spring type bikes replace present fork with standard balloon tire fork. MOTOR-CYCLE TYPE CONTROL—With a slight turn of hand on one handle bar control, you can control the motor. Speeds of 5 to 25 mph with SAFETY (2700 to 3500 R.P.M.) COMPRESSION RELEASE MECHANISM — By turning gas control, cylinder compression of engine is automatically released. Starts with less pedaling, no strain, quick pick-up, a minimum of effort. When ready to ride, engage motor and ride. MOTOR BY TRAVIS. 1 Horse Power 2 cycle air cooled motor. Aluminum cylinder with cast iron sleeve. Ball bearing, cast iron. Self contained magneto. Hot spark for fast start. Anti-freeze motor. ECONOMICAL: over 150 Miles Per Gallon. 5 TO 25 SAFE MILES PER HOUR. TOTAL WEIGHT. Only 17 lbs. Permits bike to be carried easily.

RETAILS $79.95
Plus Tax
Including All Attachments for Balloon Tire Bikes

No. 50A2
EACH
63.00
Tax Included

ALL REPLACEMENT PARTS ARE AVAILABLE IMMEDIATELY

VELOCIPEDES AND ENGLISH TRIKES

Velocipede. 1" solid rubber tires FINISH - frame, fork, fender, platform, Vermilion baked enamel Panelling and striping in white. CONSTRUCTION—1¼" tubular frame cold rolled steel. Large round head with chrome plated caps. Attractively stamped platform of heavy gauge steel New style rolled type fender Black rubber pedals with plated caps. ¾" single adjustment enameled white handle bars Molded rubber top saddle with springs. Heavy machine spoke type wheels. Packed one to carton

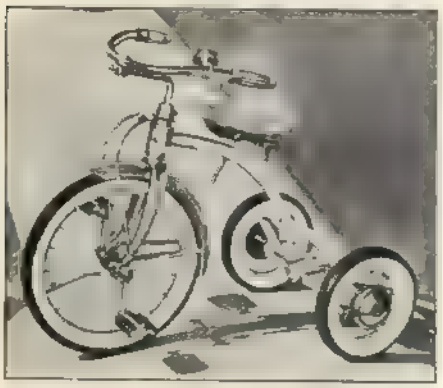
No.	Size Front Wheel	Size Rear Wheel	Each
83N335	10 inch	6 inch	6.80
83N338	12 inch	8 inch	9.10
83N339	16 inch	10 inch	10.30
83N340	20 inch	12 inch	11.50

Velocipede. CONSTRUCTION—Frame 1¼" tubular cold rolled steel. HEAD. Large round with chrome plated caps PLATFORM Attractively stamped of heavy gauge steel FENDER New style rolled type. SADDLE: molded rubber top with springs. WHEELS Full ball bearing, machine type. PEDALS Double block TIRES 1¾" semi-pneumatic front and rear. HANDLEBAR Double adjustable, chrome FINISH. Blue, white trim. BELL. Veloc. type plated

No.	Size Front Wheel	Size Rear Wheel	Each
83N368	12 inch	8 inch	13.45
83N369	16 inch	10 inch	15.10
83N370	20 inch	12 inch	16.85

Deluxe Park Cycle. A companion park cycle for the larger youngster. Model is equipped with 14" ball bearing mag type spoke wheels and also the "Master" Bicycle trainer". 14 inch hydrogen brazed frame, nylon bearing at crank hanger One piece, enameled fork, enameled fenders. One piece, 3½" throw crank; bicycle type pedals; 1¾" semi-pneumatic molded rubber tires Moulded rubber black top saddle — with springs. Adjustable, chrome plated handlebar, black grips; new deluxe design enameled chain guard, removable type safety aid. Finish: Vermilion baked enamel with bite panels Packed one per carton Weight 30 lbs

No. 83N374. Each..... 16 50



Velocipede. CONSTRUCTION—Frame 1¼" tubular cold rolled steel HEAD Large round with chrome plated caps. PLATFORM: Attractively stamped of heavy gauge steel. FENDER: New style rolled type HANDLEBAR: ¾" double adjustable, chrome-plated SADDLE Molded rubber top with springs and chrome ornaments PEDALS Ball bearing bicycle type. TIRES: 1¾" semi-pneumatic front and rear. BELL: Veloc. type plated. TRUSS RODS Chrome plated. FINISH Maroon, gold perleak with white trim

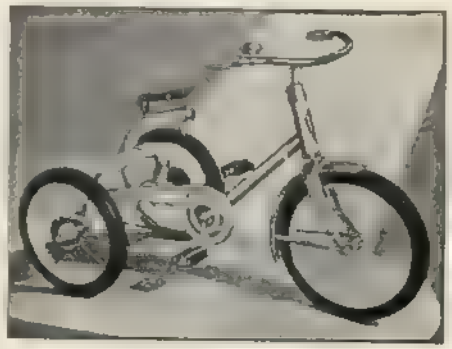
No.	Size Front Wheel	Size Rear Wheel	Each
83N371	12 inch	8 inch	18 00
83N372	16 inch	10 inch	19 70
83N373	20 inch	12 inch	20 60

Three Wheel Chain Driven Tricycles. Construction Frame: 1¼" tubular cold rolled steel. Platform Attractively stamped of heavy gauge steel Fender New style rolled type. Chain guard Steel, attractively designed both sides enclosed Pedals. Bicycle type Ball bearing Handlebar ¾" tubular white enamel Saddle Molded rubber top with springs Full Ball Bearing Wheels: Heavy Machine spoke, 16" front, 14" rear Tires: 1¾" semi pneumatic

No. 83N366 Each 19.00

Cop-Cycle. Miniature police three-wheeler finished in gleaming baked enamel Has all the trimmings, from spotlight to shiny exhaust pipe Every detail is of sturdy, long-lasting construction Box on back is of heavy gauge steel with hinged top Has chrome-plated adjustable handle bars and bicycle type pedals Rear axle is mounted in ball bearings for easy riding Frame of 1¼" tubular steel. 16 x 1.75 semi-pneumatic rubber tires, shiny mud guards; sturdy rear bumper; adjustable leather seat adjustable radio aerial; transparent plastic windshield; brilliant red reflector type spotlight Packed one to carton Weight 35 lbs

No. 83N375. Each .. DISC.



Three Wheel Chain Driven Tricycles. Construction Frame 1¼" tubular cold rolled steel. Platform Attractively stamped of heavy gauge steel. Fender. New style rolled type. Chain guard: steel attractively designed, both sides enclosed Pedals: bicycle type. Handle Bar ¾" adjustable chrome plated. Saddle Troxel type, tan vynyl, double coil chrome springs. Bell velocipede type plated. Wheels Tangent spoke, 16" front, 14" rear, Tires Semi-pneumatic, 1¾ inch FINISH Frame, fork, fender, platform and chain guard in maroon baked enamel, panelling in gold perleak PACKING One per carton—shipping weight 39 lbs

No. 83N367. Each..... OUT

Sunland Dolls

4H5542

4H5543

4H5544

4H5545

4H5546

4H5547

Girl

Vinyl head no wig, moving eyes with lashes closed mouth, latex body with voice, latex arms and legs. Rayon mesh dress embroidered and lace trimmed, matching bonnet. Rayon slip and panties, shoes and stockings.

Stock No.	Mfr's. No.	Size In.	Fact. List EACH
4H 5542	18-SV	18	$7.50

One in a box

Vinyl head with voice, sleeping eyes, saran wig with curlers, latex body arms and legs. Rayon dress with matching bonnet, lace trimmed, organdy blouse, shoes and stockings.

Stock No.	Mfr's No.	Size In	Fact. List EACH
4H 5543	18-SVSW	18	$8.95

One in a box

Girl

Vinyl head with voice, sleeping eyes and lashes, mohair wig, latex body arms and legs, rayon mesh dress, cotton slip and panties, shoes and stockings.

Stock No.	Mfr's. No.	Size In	Fact. List EACH
4H 5544	1100VN	18	$9.59

One in a box

Girl

Plastic head, closed mouth, painted eyes with lashes, saran wig with curlers, plastic body, jointed arms and legs. Novelty rayon dress with lace trim, matching, rayon panties.

Stock. No.	Mfr's. No.	Size In.	Fact List EACH
4H 5545	013	13	$5.95

One in a box.

Plastic head, moving eyes with lashes, open mouth, saran wig with curlers, plastic body with jointed arms and legs. Cotton jumper dress trimmed with contrasting braid, rayon slip and panties, shoes and stockings.

Stock No.	Mfr's. No.	Size In.	Fact. List EACH
4H 5546	016	16	$6.89

One in a box.

Composition head with open mouth and voice, sleeping eyes with lashes, mohair wig, latex arms and legs, cloth body, taffeta dress, panties and pearl shoes and stockings.

Stock No	Mfr's. No	Size In	Fact List EACH
4H 5547	2400C	24	$6.19

One in a box

Sunland Dolls

4H 5538

4H5541

4H5539

Composition head, closed mouth, moving eyes with lashes, latex body with voice, latex arms and legs. Rayon mesh lace trimmed dress with matching bonnet. Rayon slip and panties, shoes and stockings

Stock No.	Mfr's. No.	Size In	Fact. List EACH
4H 5538	16-8E	16	$5.50

One in a box

Vinyl head, no wig sleeping eyes with lashes, voice, latex arms, legs and body, rayon mesh dress embroidered and lace trimmed, rayon slip and panties, shoes and stockings.

Stock. No.	Mfr's. No.	Size In.	Fact. List EACH
4H 5541	250V	14	$5.39

One in a box.

Plastic head with voice, open mouth, sleeping eyes with lashes, saran wig with curlers, cloth body, latex arms and legs, lace trimmed rayon mesh dress with matching bonnet, rayon slip and panties, shoes and stockings

Stock. No.	Mfr's. No.	Size In	Fact. List EACH
4H 5539	450SW	20	$6.29

One in a box

Composition head, sleeping eyes with lashes, voice saran wig with curlers, cloth body rayon mesh dress with matching bonnet, rayon slip and panties, shoes and stockings

Stock. No.	Mfr's. No.	Size In.	Fact. List EACH
4H 5540	222SW	22	$7.95

One in a box.

Sunland Dolls

Boy Doll

Vinyl head with voice, plastic eyes, latex body, arms and legs, white shoes and stockings. Dressed in a cotton play suit.

Stock No.	Mfr's. No.	Size In.	Fact. List EACH
4H 5536	110B	18	$2.39

One in a box.

Girl Doll

Vinyl head, plastic eyes, latex body, arms and legs, white shoes and stocking, cotton play dress and panties.

Stock No.	Mfr's. No.	Size In.	Fact. List EACH
4H 5537	110G	18	$2.39

One in a box.

Noma—Talking Doll

Effanbee Doll

The sensational electronic doll talks, prays, sings and laughs. Has a real human voice. Operates by electronic unit. Touch the magic button and she'll sing gay little songs, recite nursery rhymes, laugh and be gay, and say her prayers. Just like a little girl should. Life size young lady exquisitely dressed with titlable head and movable arms and legs.

Stock No.	Size In	lb Each	Fact. List EACH
4H 5726	25	8	$24.75

One in a carton.

Miniature Dolls

Beehler Arts Ltd.

Dolls have moving eyes, heads and arms, lovely hair, and beautifully painted faces. Packaged in window display boxes.

Virga—5 Inch Dolls

Stock No.	Mfr's. No.	Character	lb Each	Cat. List EACH
4H 5556	225	Bride	1/2	$1.25
4H 5557	226	Bridesmaid	1/2	1.25
4H 5558	230	Brithday Party	1/2	1.25
4H 5559	231	Colonial Girl	1/2	1.25
4H 5560	232	Dutch Girl	1/2	1.25
4H 5561	233	Carnival Girl	1/2	1.25

World Series—7½ Inch Dolls

Stock No.	Mfr's. No.	Character	lb Each	Cat. List EACH
4H 5562	435	Bridesmaid	2/5	$2.10
4H 5563	449	Alice in Wonderland	2/5	2.10
4H 5564	459	Nun	2/5	2.10
4H 5565	460	Bride	2/5	2.10
4H 5566	463	Victoria Helene of England	2/5	2.10
4H 5567	[illegible]	Donna Maria of Spain	2/5	2.10

Knickerbocker Dolls

Sleepy Head Doll

Sleepy head doll. Assorted colors. Soft cuddle dolls of delustered rayon plush with washable vinyl face.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 5580	210-80	1	$2.95

Twenty-four in a carton.

Sleepy Head with Zipper Pocket

Same construction as above, but larger.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 5581	210-4	1½	$4.95

Twelve in a carton.

Wilson BASEBALL GLOVES

Wilson Boys' Ball Hawk 3. Good quality tan color cowhide with high grade felt padding. Fully oiled. Leather laced wrist.

No. 6R101. Each 4.25

Wilson Professional Ball Hawk 3. Medium size 3-finger model good quality cowhide felt padded, stuffed heel. Oiled and greased pocket.

No. 6R102. Each 5.50

Wilson Professional Ball Hawk 3 Good grade tan color cowhide. Hand formed felt pad. Rawhide lacing at wrist. 1-piece web. Adjustable wrist strap.

No. 6R103. Each 6.80

Wilson Professional Ball Hawk 3. High quality cowhide with hand formed felt pad. Fully oiled and greased set pocket. Rawhide leather lacing. Flat leather binding.

No. 6R104. Each 12.70

Wilson Ball Hawk 4. Four-finger model, made of good quality sturdy glove cowhide. Full size. Oiled pocket. Adjustable wrist strap.

No. 6R105. Each 6.28

Wilson Ball Hawk 4. Four-finger model made of good quality tan color cowhide. Fully oiled greased set pocket. Rawhide lacing at wrist. Adjustable leather wrist strap.

No. 6R106. Each 8.50

Wilson Professional Ball Hawk 4. Four-finger model made of good quality tan color cowhide. Stuffed heel pad. Fully oiled greased set pocket.

No. 6R107. Each 9.75

Wilson Fielder's Glove. Large size five-finger glove made of good quality cowhide. Full sheepskin lining. Fully oiled with greased set pocket.

No. 6R108. Each 7.64

Wilson Professional Fielder's Glove. Large size five-finger glove made of high quality glove leather. Full cowhide lining. Fully oiled with greased set pocket. Rolled leather binding.

No. 6R109. Each 8.62

Wilson Spear-M Baseman's Mitt. Large size high quality cowhide mitt with leather binding. Wool and hair felt pad. fiber stuffing. Fully oiled, greased set pocket. Leather laced.

No. 6R110. Each 6.80

Wilson Youth's Trapper Baseman's Mitt. Medium size mitt of good quality cowhide with sheepskin half lined. Fiber reinforced stuffing. Fully oiled, greased set pocket.

No. 6R111. Each 8.10

Wilson Professional Trapper Baseman's Mitt. Large size mitt of high quality cowhide. Hand formed felt pad and reinforcement. Full cowhide lining. Hand oiled, greased set pocket. Leather laced.

No. 6R112. Each 11.45

GLOVES

Large Junior Fielders Glove. Genuine cowhide glove with leather half lining, plastic laced, leather web. Well constructed heel. Plastic bound edge. Button snap. Packed ½ doz. No less sold

No. 6R7. Per dozen **20.90**

Shure Winner Youth's Fielders Glove. Genuine cowhide glove with leather lining. Fully oiled. Natural pocket. Adjustable thumb flap

No. 6R11. Each **2.62**

Shure Winner Fielders Glove. Large size fielders glove of genuine cowhide. Double sewed cowhide web. Leatherette bound wrist. Well constructed heel; deep pocket fully oiled. Half leatherette lined. Each number

No. 6R8. Each **3.18**

Junior Baseman's Mitt. Junior size mitt with genuine leather palm and leatherette back and lining. Plastic bound edge. Well padded. Packaged ½ doz. No less sold

No. 6R9. Per dozen **24.20**

Shure Winner Fielders Glove. Made of high grade tanned cowhide, fully oiled. Full leather lined. Leather welted seams. Two strap loops between thumb and forefinger. Sewed heel

No. 6R12. Each **4.24**

Shure Winner Professional Fielders Glove. Extra large glove made of fully oiled tanned cowhide with full leather lining, leather welted seams, rolled binding and fully laced. One piece web

No. 6R13. Each **6.54**

Shure Winner Youth's Fielders Glove. Cowhide glove, fully oiled and leather lined. Three finger model with solid loop and adjustable wrist strap.

No. 6R14. Each **2.94**

Shure Winner Professional Fielders Glove. Three finger and thumb interlaced model made of fully oiled, tanned cowhide. Leather lined with rolled binding laced heel well-built pad and formed pocket. Medium size.

No. 6R15. Each **4.90**

Shure Winner Professional Fielders Glove. Three finger and thumb interlaced model with solid loop between thumb and forefinger, streamlined back, made of high grade tan cowhide fully oiled, full leather lined, leather welted seams, rolled binding and laced heel, especially built pad well-formed pocket.

No. 6R16. Each **5.56**

Shure Winner Junior Baseman's Mitt. Made of select tan top grain cowhide, full leather lined. Well made felt pad, bound edges and adjustable wrist strap. Fully laced.

No. 6R17. Each . . . **4.41**

Shure Winner Professional Baseman's Mitt. Made of high grade, fully oiled, tanned cowhide. With well-made, hand-formed pad. Rolled leather binding, leather laced throughout, and full cowhide lining. Adjustable wrist strap.

No. 6R18. Each **6.54**

Shure Winner Catcher's Mitt. Genuine leather palm and finger. Heavy leatherette back. Well formed, deep pocket. Leatherette bound edge, plastic lacing all around. Adjustable wrist strap.

No. 6R10. Each **3.50**

Shure Winner Catcher's Mitt. Made of the finest tanned cowhide with specially constructed felt pad. Pressed palm full leather laced. Adjustable lined wrist strap.

No. 6R19. Each **6.20**

Wilson Catcher's Mitt. High quality, specially tanned mitt leather. One piece palm molded over pad. Snap action lacing.

No. 6R113. Each **9.27**

Wilson Catcher's Mitt. Made of high grade specially tanned mitt leather. Rolled leather binding. One piece palm molded over pad. Snap action lacing.

No. 6R114. Each **12.70**

BASEBALLS AND SOFTBALLS

Shure Winner Baseball. Rubber center with compressed wool felt core wound with layer of heavy yarn and finished with cotton yarn to regulation size. Genuine pear, horsehide cover tandsewed with double red thread. Each ball wrapped in tissue. Packed one dozen.

No. 5R13. Per dozen 7.52

Shure Winner Baseball. Double-welded compressed felt center with cotton yarn winding. White alum horsehide cover double stitched with red thread. Each in box. Packed one dozen.

No. 5R9. Per dozen 9.40

Wilson Official League Baseball. A sturdy ball for sandlot play. Cork and rubber center. High grade yarn winding. Horsehide cover, non-scuff and water repellent. Each in box. Packed one dozen.

No. 5R19. Per dozen 17.64

Wilson Official Baseball. Made to Big League specification. Cushion cork center. Finest blue, grey and white wool yarn. Double hand stitched. Alum tanned horsehide cover is non-scuff and water repellent. The winding is Anchored and Balanced. Each in box. Packed one dozen.

No. 5R20. Per dozen . 24 70

Reach Official American League Baseball. Cushioned cork center. Finest grade horsehide cover, double-stitched with 4-ply linen thread. Each in box. Packed one dozen.

No. 5R12. Per dozen 32.34

Shure Winner 12" Softball. Kapok core wound to correct size with cotton yarn. A cover of plastic material is vulcanized and molded onto the ball to imitate a leather cover and its stitches. The imitation stitches are painted red. Each ball cellophane wrapped and packed one dozen to box.

No. 5R8. Per dozen . . .6.20

Shure Winner 12" Softball. Compressed cotton felt center and wound with cotton thread. Covered with heavy artificial leather. Double red stitching. Packed 1 dozen.

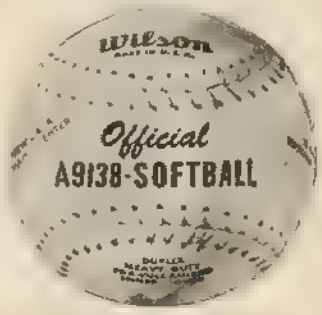
No. 5R53. Per dozen 7.20

Shure Winner 12" Softball. Individually molded and baked wool center wound with a layer of heavy yarn and finished with cotton yarn to regulation size and weight. Genuine grain cowhide cover and sewed and double stitched with white thread. Each ball wrapped in tissue. Packed one dozen.

No. 5R14. Per dozen 10.91

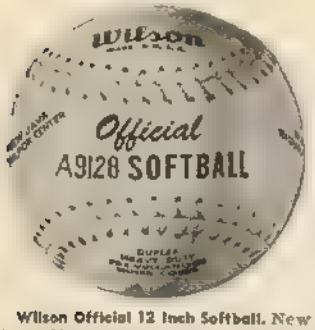
Shure Winner Official 12 Inch Softball. Made of the finest long fibre Kapok. Wound with cable cord and covered with genuine selected pearl grain cowhide. Stitched with strong waxed thread. Each in box.

No. 5R73. Per dozen 12.40



Wilson Official 12 Inch Softball. New Java Kapok center with provitalized horsehide cover for extra long life. White washable leather cover.

No. 5R35. Per dozen 19.60



Wilson Official 12 Inch Softball. New Java Kapok center. It is pressed under the special Wilson method and double vulcanized. The cover is washable cowhide.

No. 5R36. Per dozen 24 70

Young Official 12 Inch Nightball. Filled with genuine long fibre Kapok firmly compressed and tightly wound by machine with cable cord and wool. Genuine selected white alum horsehide cover. Double stitched. Excellent for night play under lights.

No. 5R52. Per dozen . 22 25

Official "Clincher" 16 Inch Softball. Kapok molded by "steam weld" method, wound with cotton yarn. Horsehide cover sewn by "Clincher" method, concealing thread. Each in box.

No. 5R10. Per dozen 23.00

Young Official 16 Inch Softball. In seam style. Official size and weight. Wound with yarn by machine under high tension. Genuine selected pearl grain cowhide. Each in box.

No. 5R61. Per dozen 23.52

Original Life-Like "Bi-Bye" Babies

(H) (J) ORIGINAL "BI-BYE BABY" DOLL. A perfect replica of a newborn infant. You'll gasp with amazement when you see her, she looks and feels so warm and lifelike. Head, arms and legs are made of soft plastic, beautifully detailed and pliable—actually looks and feels like real baby skin. Soft stuffed body. Open mouth with tiny tongue—baby's finger fits right in. Beautifully molded little ears; chubby arms; fat little legs are bent. Painted features and hair. "Bi-Bye Baby" cries when she's turned over. Dressed in flannel diaper and full-length baby kimono with ribbon ties. Soft outer blanket tied with huge bow. Little mothers will love changing baby's outfit to "Dress up" clothes (K) below.

(H) LIFESIZE 21-IN. "BI-BYE BABY" DOLL. The actual size of a newborn infant and so baby-like you'll want to squeeze her on sight.

48 W 4011—21-inch "Bi-Bye Baby" Doll. Ship. wt. 3 lbs. 8 oz. . . . 9.69
48 W 4014 18-inch "Bi-Bye Baby" Doll. Ship. wt. 2 lbs. 8 oz. . 5.89
48 W 4031—14-inch "Bi-Bye Baby" Doll. Ship. wt. 2 lbs. 4.49

(J) "BI-BYE BABY" TWINS. Two babies in one large blanket. The lucky little girl who gets this adorable pair will have twice as much fun dressing and caring for them. They would be a perfect gift for twin girls.

48 T 4032—14-inch "Bi-Bye Baby" Twins. Ship. wt. 3 lbs. 8.69

(K) DRESS-UP OUTFIT for "Bi Bye Baby" and other baby dolls. Long lace-trimmed organdy dress with ribbon ties. Matching bonnet with fluffy net ruffle and ribbon ties. Ribbon edged flannel jacket. Knit bootees.

48 W 4110 Dress-up Outfit for 19 to 21-in. Dolls. Wt. 1 lb. 8 oz . . . 3.59
48 W 4107—Dress-up Outfit for 16 to 18-in. Dolls. Wt. 1 lb. 6 oz. 2.98
48 W 4106—Dress-up Outfit for 13 to 15-in. Dolls. Wt. 1 lb. 3 oz. . . . 2.39

(L) ENCHANTING LITTLE CHERUB who kneels and prays. Truly a little Christmas angel with her sweet angelic face and downcast eyes, her soft cape, wings and her little golden halo. And her prayerful attitude will give her Little mother added incentive to say her prayers too.

Her soft, cuddly cotton stuffed body is lightweight and lovely to hug. Delicately modeled head with molded hair and cute baby features is hand-painted soft plastic; clasped hands come apart are soft plastic too. Her little mouth is open and there's a sprinkling of freckles across her tiny nose. Wings are felt. Removable halo is shiny gold color. She's dressed in a flannelette, white cotton panties knitted bootees.

48 T 4015 – About 18 in. tall
Ship. wt. 1 lb. 10 oz. . . .5.29

Read "Facts About Dolls" on Page 122 . . . Details of Wards Payment Plan on Page 257.

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Cuddly Stuffed Toys

SOFT PLUSH WASHABLE PLASTIC...MUSICAL

(A) BONNET GIRL. Big and huggable. She's cotton-stuffed and has washable plastic face, arms and legs. Wears a red-checked cotton dress that can be removed; it fastens with safety pins. A fringe of yarn hair peeks out from under her perky bonnet. Big satin bow under her chin.
46 T 1546—Abt. 20 in. tall. Ship. wt. 2 lbs.. 2.79

(B) PUDGY PANDA. An appealing pet that's sure to be a favorite with tots. Made of soft, silky rayon and cotton plush. His washable vinyl plastic nose and mouth are ever so realistic shoe-button glass eyes are tightly sewed in. Jaunty satin bow.
46 T 1414—Abt. 19 in. tall. Ship. wt. 2 lbs. 12 oz. 4.75
46 T 1413 —Abt. 12 in. tall. Ship. wt. 1 lb.....1.97

(C) (D) NEW ' ALGY" TOYS. Especially designed for children with a tendency to allergic irritations; new, scientific "Dust Seal" is used to treat both the outer covering and soft inner stuffing of Algy Toys. Dust-Seal is non-toxic, odorless and non-irritating. But Algy Toys are perfect pets for any child because they're cushiony-soft and cuddly. They have cunning vinyl plastic faces (washable) with painted features, silky plush "coats" in lovely pastel colors. In special heat-sealed plastic bags.

(C) ALGY RUDOLPH. The lovable red-nosed reindeer that has become a favorite with children everywhere. He has a painted red nose and little felt horns. (Other Rudolph Toys on Page 176).
46 T 1417 Abt. 15 in. tall. Ship. wt. 1 lb.....4.69

(D) ALGY BEAR. A funny, floppy, loose-jointed fellow that any child would love. His pert vinyl plastic face is washable. Wears a big satin bow.
46 T 1416—Abt. 17 in. tall. Ship. wt. 1 lb.....4.69

(E) SOFT CUDDLE DOG. This sleepy puppy has his nose snuggled between his paws for a snooze. He's extra soft and silky—made of fluffy rayon and cotton plush; has floppy big velvet-lined ears. Features are felt. Soft cotton stuffing.
46 T 1484—Abt. 8 in. long. Ship. wt. 10 oz....1.65

(F) CUDDLE TEDDY BEAR. A favorite with all children. He has firmly attached celluloid eyes that roll around amusingly. Wears a saucy satin bow around his neck. Fine quality rayon, cotton plush; cotton stuffing. Floppy arms and legs.
46 T 1504—Abt. 14 in. tall. Ship. wt. 1 lb. 8 oz. . .2.85
46 T 1503—Abt. 12 in. tall. Ship. wt. 1 lb.....1.89

(G) GROWLING BEAR. When you pick him up he growls in a way to delight little tots. He's soft and cuddly—made of silky rayon and cotton plush, stuffed with cotton. Has sewed-in glass eyes and realistic vinyl plastic "snout". Ribbon bow.
46 T 1412 Abt. 17 in. tall Ship. wt. 1 lb. 8 oz.3.98
46 T 1411—Abt. 14 in. tall. Ship. wt. 1 lb. 3 oz.2.85
46 T 1410—Abt. 12 in. tall. Ship. wt. 1 lb. 2.45

(H) "KLINKY KLOWN". He's very gay and cute as can be. Wears a colorful circus suit with funny pointed cap. Made of washable plastic that cleans readily with a damp cloth; stuffed with soft cotton. Klinky's features are painted.
46 T 1489—Abt. 18 in. tall. Ship. wt. 1 lb. 4 oz.1.79

(I) PLUSH MONKEY. A lovable, laughable companion. Soft rayon, cotton plush; cotton stuffed. Conical face painted on buckram. Wired tail.
46 T 1519—Abt. 11½ in. tall. Ship. wt. 8 oz....1.85

(K) BIG PIXY DOLL. Nice and soft for little arms to hug and squeeze. Made of plastic and cotton, cotton stuffed. Saucy face with tinted features is washable. Fringe of yarn "hair".
46 T 1527 - Abt. 18½ in. tall. Ship. wt. 1 lb....94c

(L) BIGS BUNNY. The "cheeky" cartoon rabbit stands up alone clutching his carrot. Cotton stuffed body is plush and felt; felt carrot. Painted features. Wired arms and legs can be posed.
46 T 1434 - Abt. 19 in. tall. Ship. wt. 1 lb. 2 oz. 3.59

(M) PLASTIC SCOTTY DOG. An original "Hole-le Toy". An appealing puppy-dog with a gay plaid coat Made of quilted, laminated plastic that is washable. Cotton stuffing. Wears tinkling bell.
46 T 1483—Abt. 11 in. tall. Ship. wt. 1 lb. . . .2.25

(N) WASHABLE ZEBRA. Cute and perky. Made of vinyl plastic, cotton-stuffed. Painted stripes and features. Finished with overcast stitching.
46 T 1480 - Abt. 8½ in. tall. Ship. wt. 6 oz. . .89c

(P) WASHABLE PUP. A playful-looking dog with big floppy ears. He's made of tough vinyl plastic stuffed with cotton. Overcast stitching.
46 T 1479 - Abt. 7½ in. long. Ship. wt. 6 oz. . .89c

(R) WASHABLE GIRAFFE. "Hol-le Original" Toy. Gay circus dots make him an appealing pet. Made of sturdy vinyl plastic with cotton stuffing. Strong overcast seams. Wears a tinkling bell.
46 T 1428—Abt. 14 in. tall. Ship. wt. 9 oz....1.79

(T) "HOL-LE" POODLE. Very Frenchy and ever so comical. She's washable plastic with painted features; cotton stuffing. Removable vinyl plastic ballerina skirt and cotton sweater
46 T 1429—Abt. 17½ in. tall. Ship. wt. 1 lb..2.79

(U) (V) (W) MUSICAL TOYS. Have concealed Swiss music boxes; just wind them up and they play a tinkling tune. These toys are well-made; with ordinary care they will last indefinitely.

(U) MUSICAL PANDA. Cute and chubby and covered with silky plush. Has rolling celluloid eyes, firmly attached. Red felt tongue, yarn nose. Perky satin bow. Swiss wind-up music box.
46 T 1498—Abt. 8 in. tall. Ship. wt. 1 lb....3.49

(V) MUSICAL SLEEPING BEAR. An appealing sleepy-time pet. Beautifully made of fluffy rayon and cotton plush with soft cotton stuffing. Floppy ears, embroidered features, felt paws. Genuine Thorens Swiss music box plays a lullaby.
46 T 1528 -Abt. 15 in long. Ship. wt. 2 lbs. 6.69

(W) MUSICAL JOINTED BEAR. Movable arms and legs, turning head. Silky rayon and cotton plush. Vinyl plastic nose, mouth; sewed in wood button eyes, felt paws. Wind up Swiss music box.
46 T 1424—Abt. 13 in. tall. Ship. wt. 1 lb. 4 oz.5.39

(X) TUMBLING CLOWN. A frolicsome fellow who turns somersaults when he's wound up (by turning arms in reverse). Funny face is washable vinyl plastic. Rayon and cotton plush body is cotton-stuffed. Bright red, yellow and green, red yarn " hair." Removable multicolor ruff.
46 T 1500—Abt. 14 in. tall. Ship. wt. 2 lbs...6.49

(Y) (Z) (AA) "PETER PUPPET" MARIONETTES. Their amusing antics are fascinating to all boys and girls. So easy to operate that any child can make them dance, act and perform acrobatics. Patented "Untrol" one-hand control. Sturdily made to take abuse; strings do not tangle readily. Painted features; gay costumes.

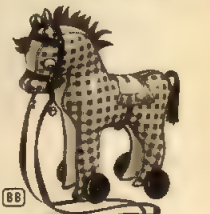
(Y) HOWDY DOODY MARIONETTE. His sassy face has controllable mouth that opens and closes. Composition head, hands and "dancing boots" Wears buckeroo outfit with plaid shirt, kerchief.
48 T 1443 -Abt. 17 in. tall. Ship. wt. 1 lb. 8 oz.2.98

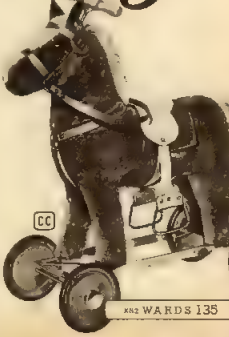
(Z) ALICE-IN-WONDERLAND MARIONETTE. Her mouth opens and closes so she can "talk." Composition hands, feet and head; painted yellow hair. Wears a blue cotton dress, white pinafore.
48 T 1442—Abt. 15 in. tall. Ship. wt. 1 lb. 2 oz.2.49

(AA) MONKEY MARIONETTE. Removable roller skates. Composition hands, feet and head. Wears a green gabardine suit, bright red felt hat.
48 T 1441 —Abt. 12 in. tall. Ship. wt. 1 lb.....1.65

(BB) ' HOL-LE" HORSE ON WHEELS. He's red and white gingham-checked washable plastic, cotton-stuffed. Jaunty red mane and tail. Plastic reins and bridle have bells that tinkle as he's pulled along. Rubber wheels protect furniture.
48 T 1427—Abt 12 in. tall. Ship. wt. 1 lb. 12 oz.3 59

(CC) PLUSH RIDING HORSE ON WHEELS. Steers like a velocipede, steel rod steering post has wooden handle. Brown rayon plush body is firmly stuffed. Simulated leather saddle; green felt blanket. Firmly attached glass eyes. Nickel plated steel undercarriage, chrome hub-caps. 4-in. red wheels, rubber tires. Height overall abt. 21 in., saddle seat to floor, abt. 13½ in.
48 T 1545 M—Ship. wt. 8 lbs. *Mailable*..... 9.59

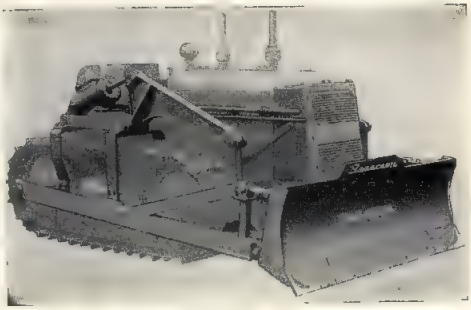




ISAACSON HYDRAULIC STRAIGHT BLADE TRAC-DOZERS

ISAACSON STRAIGHT BLADE HYDRAULIC Trac-Dozers are available in a complete range of sizes for International Crawler Tractors.

Here is a blade that really rolls the dirt. Heavy-duty tiltbuckles that can be easily adjusted allows the close mounted moldboard to be tilted forward or backward and either corner dropped to meet various digging conditions and types of material. A compact, well-designed hydraulic system insures a full supply of oil, enabling quick, positive action. Because of its compactness, larger passages can be allowed for oil circulation, reducing friction, temperature and velocity. Two large sumps at bottom of tank helps keep oil free of any foreign particles. Four position valve includes: raise, lower, hold and float. All have front power take-off and radiator type tanks. TD-6 and 9 Models also available with rear power take-off and tank. The TD-18 and 24 have cast manganese steel corner bits for extra wear. Hardened spherical shape trunnions on all models for added wearing qualities. Hardened pins and bushings at all points of wear.



HSF 18 Illustrated

The unexcelled strength and balance is obtained by the use of standardized prefabricated members and proper weight distribution. This "Engineered Balance" means better performance and longer equipment life—A truly economical dirtmover that's a leader in the field.

SPECIFICATIONS

Model	HSF-6W	HSF-9W	HSF-14W	HSF-18W	HSF-24 (6 Roller)
For use with International Model	TD-6W	TD-9W	TD-14W	TD-18W	TD-24
Overall Dimensions of Tractor with Mounted Trac-Dozer:					
Length	11'-0"	11'-11"	13'-8"	16'-0"	18'-2"
Width	6'-11"	8'-0"	9'-4"	9'-6"	11'-2"
Height (without canopy)	5'-2"	5'-5"	7'-4"	7'-8"	8'-7"
Blade:					
Length	6'-11"	8'-0"	9'-4"	9'-6"	11'-2"
Height	2'-2"	2'-8"	3'-3"	3'-0"	3'-7"
Maximum Lift	2'-6"	2'-8"	3'-2"	3'-7"	3'-7"
Maximum Digging Depth	1'-5"	1'-0"	1'-4"	1'-0"	1'-0"
Maximum Tilting Adjustment	12"	12"	12"	12"	12"
Cutting Edges:					
Center Blade: (Reversible)					
Length	3'-2"	4'-3"	5'-4"	5'-8"	7'-1"
Width	7"	7"	8"	10"	10"
Thickness	¾"	¾"	⅞"	1"	1"
Material	Carbon Steel, Flame Hardened				
End Blades.					
Length	1'-10"	1'-10"	2'-0"	1'-11"	2'-1"
Width	7"	7"	8"	10"	10"
Thickness	¾"	¾"	⅞"	1"—1⅛"	1"—2"
Material	Carbon Steel, Flame Hardened			Cast Manganese Steel	
Maximum Track Shoe Width	18"	20"	22"	24"	28"
Grease Fittings	Alemite	Alemite	Alemite	Alemite	Alemite
Pump	Gear Type, Front Mounted				
Shipping Weight (Approximate)	3110 lbs.	3730 lbs.	4940 lbs.	7320 lbs.	10,250 lbs.

Models HSF-6W thru HSF-18W also available for Standard Gauge Tractors. Model HSF-24 available for 7 Roller Tractor.

Models HSF-6W and HSF-9W can be furnished with Rear Mounted Pump and Tank, if no winch is to be mounted on rear.

Note: Model designations in above specifications covering International Tractors TD-18 and TD-14 also cover Models TD-18A and TD-14A

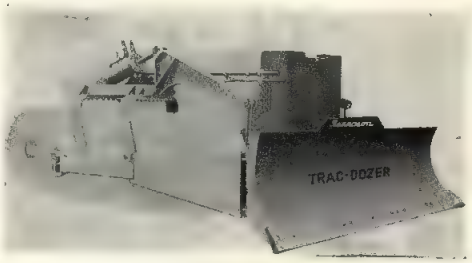
SUBJECT TO IMPROVEMENTS AND CHANGES IN SPECIFICATIONS WITHOUT NOTICE SPECIFY SERIAL NUMBER OF TRACTOR ON WHICH EQUIPMENT IS TO BE INSTALLED

471-1-51

ISAACSON HYDRAULIC ANGLE BLADE TRAC-DOZERS

ISAACSON ANGLE BLADE, HYDRAULIC Trac-Dozers — they, like the Straight Blades, come in complete size range for International Crawler type tractors.

The Hydraulic Angle Blade Dozer has the same rugged construction, the same fast acting hydraulic system, and the same "Engineered for Balance" design as the Straight Blade. This Dozer, however, can be angled for side casting by simply changing the position of three pins in the main frame. This location for the adjustment makes possible the very close mounting of the blade to the front of the tractor. Either corner of the blade can be lowered by changing the trunnion socket position.



HAF-24 Illustrated

All Isaacson Hydraulic models have front power take-off and radiator type tanks. The TD-6 and 9 models are available with either front or rear power take-off and tank. Hardened spherical shaped trunnions on all models.

A Dozer that's built to match the speed, power, and durability of the International Tractor.

SPECIFICATIONS

Model	HAF-6W	HAF-9W	HAF-14W	HAF-18W	HAF-24 (6 Roller)
For Use with International Model	TD-6W	TD 9W	TD-14W	TD-18W	TD-24
Overall Dimensions of Tractor with Trac-Dozer:					
Length (Blade Straight)	11'-1"	12'-1"	14'-1"	18'-5"	19'-2"
Length (Blade Angled)	13'-7"	14'-10"	17'-2"	18'-7"	22'-5"
Width (Blade Straight)	9'-1"	10'-3"	11'-11"	12'-4"	13'-6"
Width (Blade Angled)	8'-3"	9'-3"	10'-11"	11'-4"	12'-5"
Height (without canopy)	5'-2"	5'-6"	7'-4"	7'-8"	7'-6"
Blade:					
Length	9'-1"	10'-3"	11'-11"	12'-4"	13'-6"
Height	1'-10"	2'-2"	2'-8"	3'-0"	3'-7"
Maximum Lift	2'-10"	2'-11"	3'-4"	3'-6"	4'-1"
Maximum Digging Depth	1'-4"	1'-2"	1'-3"	1'-4"	1'-2"
Maximum Tilting Adjustment	7"	7"	7"	7"	7"
Blade Angle	25°	25°	25°	25°	25°
Cutting Edges:					
Center Blade (Reversible):					
Length	5'-11"	7'-1"	8'-10"	8'-6"	9'-8"
Width	7"	7"	8"	10"	10"
Thickness	¾"	¾"	⅞"	1"	1"
Material	Carbon Steel, Flame Hardened				
End Blades					
Length	1'-7"	1'-7"	1'-7"	1'-11"	1'-11"
Width	7"	7"	8"	10"	10"
Thickness	¾"	¾"	⅞"	1"—1⅛"	1"—1⅛"
Material	Carbon Steel, Flame Hardened Cast Manganese Steel				
Maximum Track Shoe Width	18"	20"	23"	24"	28"
Grease Fittings	Alemite	Alemite	Alemite	Alemite	Alemite
Pump	Gear Type Front Mounted				
Shipping Weight (Approx.)	3535 lbs.	4180 lbs.	6540 lbs.	8740 lbs.	13,000 lbs.

Models HAF-6W thru HAF-18W also available for Standard Gauge Tractors. Model HAF-24 available also for 7 Roller Tractor.

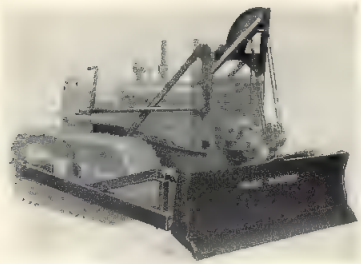
Models HAF-6W and HAF-9W can be furnished with Rear Mounted Pump and Tank, if no winch is to be mounted on rear.

Note: Model designations in above specifications covering International Tractors TD-18 and TD-14 also cover Models TD-18A and TD-14A.

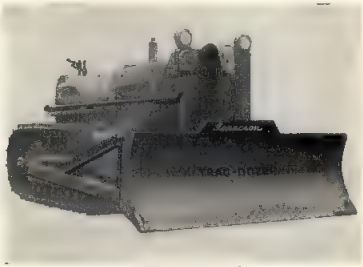
SUBJECT TO IMPROVEMENTS AND CHANGES IN SPECIFICATIONS WITHOUT NOTICE SPECIFY SERIAL NUMBER OF TRACTOR ON WHICH EQUIPMENT IS TO BE INSTALLED

471-2-51

ISAACSON KABLE STRAIGHT BLADE TRAC-DOZERS



KSF-18 Illustrated



KSR-24 Illustrated

ISAACSON KABLE STRAIGHT BLADE, Cable Operated Trac-Dozers—Like the rest of the Isaacson line, it's truly an outstanding performer—matched for power and balance with the International Crawler Tractors.

The cable action is smooth and fast . . . lift is high and powerful . . . drop is instant. The same simple, yet sturdy, tilting arrangement, and the same close mounting that is to found on Isaacson Hydraulic Models is present on the cable operated dozers. Moldboard and side arms can be removed as a unit by removing sheave block pin and trunnion caps.

Sheaves roll on shielded ball bearings which give true cable alignment and prolong it's life. Maintenance costs drop when you buy "Isaacson."

SPECIFICATIONS

Model	KSF-14W	KSR-14W	KSF-18W	KSR-18W	KSF-24	KSR-24
For use with International Model	TD-14W	TD 14W	TD 18W	TD-18W	TD-24	TD-24
Overall Dimensions of Tractor with Trac-Dozer						
Length	14'-3"	14'-0"	16'-9"	16'-0"	18'-2"	18'-11"
Width	9'-4"	8'-4"	9'-8"	9'-6"	11'-2"	11'-2"
Height (without canopy)	7'-11"	8'-4"	9'-5"	9'-0"	9'-4"	7'-6"
Blade:						
Length	9'-4"	9'-4"	9'-8"	9'-6"	11'-2"	11'-2"
Height	2'-8"	2'-8"	3'-0"	3'-0"	3'-7"	3'-7"
Maximum Lift	3'-8"	3'-8"	4'-1"	3'-8"	3'-10"	3'-5"
Maximum Digging Depth	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"
Maximum Tilting Adjustment	12"	12"	12"	12"	12"	12"
Cutting Edges:						
Center Blade (Reversible)						
Length	5'-4"	5'-4"	5'-8"	5'-8"	7'-1"	7'-1"
Width	8"	8"	10"	10"	10"	10"
Thickness	⅞"	⅞"	1"	1"	1"	1"
Material	Carbon Steel, Flame Hardened					
End Blades						
Length	2'-0"	2'-0"	1'-11"	1'-11"	2'-1"	2'-1"
Width	8"	8"	10"	10"	10"	10"
Thickness	⅞"	⅞"	1"—1¼"	1"—1¼"	1"—2"	1"—2"
Material	Carbon Steel, Flame Hardened		Cast Manganese Steel			
Maximum Track Shoe Width	22"	22"	24"	24"	28"	28"
Sheave Diameter	7"	9½"	9½"	9½"	8½"	8½"
Grease Fittings	Alemite	Alemite	Alemite	Alemite	Alemite	Alemite
Kable Control Unit Model (ordinarily used)	G	HH	H	HHL	HM	JJ
Shipping Weight with Kable Control Unit (Approx.)	4760 lbs.	6140 lbs.	7075 lbs.	8520 lbs.	8570 lbs.	10,850 lbs.
Shipping Weight without Kable Control Unit (Approx.)	4370 lbs.	4150 lbs.	6475 lbs.	6420 lbs.	7970 lbs.	8,050 lbs.

Models KSF-14W, KSR-14W, KSF-18W, and KSR-18W also available for Standard Gauge Tractors.
Slight variations in weights depending on type Kable Control Unit Ordered.
KSF denotes Kable-Straight Blade with Front P.T.O; KSR—Rear P.T.O.

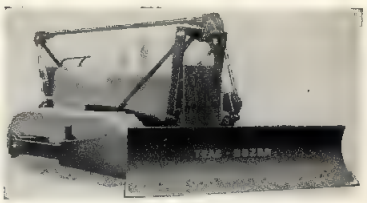
Note: Model designations in above specifications covering International Tractors TD-18 and TD-14 also cover Models TD-18A and TD-14A

SUBJECT TO IMPROVEMENTS AND CHANGES IN SPECIFICATIONS WITHOUT NOTICE
SPECIFY SERIAL NUMBER OF TRACTOR ON WHICH EQUIPMENT IS TO BE INSTALLED

471-7-51

ISAACSON KABLE ANGLE BLADE TRAC-DOZERS

KAF-14 Illustrated



KAR-18 Illustrated

ISAACSON KABLE ANGLE BLADE, Cable Operated Trac-Dozers—there is no limit to the many uses of this model. Road builders and contractors acclaim it as one of the best. The moldboard can be angled (like the Hydraulic Trac-Dozer) by changing three pins, tilted by changing trunnion socket position. When the tractor is to be used without the dozer you can make this change in a matter of minutes, simply by pulling the two trunnion wedges and one sheave block pin; then back the tractor out. Operators say, "there's none like it."

SPECIFICATIONS

Model	KAF-14W	KAR-14W	KAF-18W	KAR-18W	KAF-24	KAR-24
For use with International Model	TD-14W	TD-14W	TD-18W	TD-18W	TD-24	TD-24
Overall Dimension of Tractor with Trac-Dozer:						
Length (Blade Straight)	14'-7"	14'-4"	17'-2"	16'-7"	18'-5"	19'-7"
Length (Blade Angled)	17'-8"	17'-5"	20'-4"	19'-9"	22'-8"	22'-10"
Width (Blade Straight)	11'-11"	11'-11"	12'-4"	12'-4"	13'-6"	13' 6"
Width (Blade Angled)	10'-11"	10'-11"	11'-4"	11'-4"	12'-5"	12'-5"
Height (without canopy)	7'-11"	8'-4"	9'5"	9'-0"	9'-4"	7'-8"
Blade:						
Length	11'-11"	11'-11"	12'-4"	12'-4"	13'-6"	13'-6"
Height	2'-6"	2'-6"	3'-0"	3'-0"	3'-7"	3'-7"
Maximum Lift	3'-5"	3'-5"	4'-1"	3'-8'	3'-10"	3'-10"
Maximum Digging Depth	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"	5'-0"
Maximum Tilting Adjustment	7"	7"	7"	7"	7"	7"
Blade Angle	25°	25°	25°	25°	25°	25°
Cutting Edges:						
Center Blade (Reversible).						
Length	8'-10"	8'-10"	8'-8"	8'-8"	9'-8"	9'-8"
Width	8"	8"	10"	10"	10"	10"
Thickness	⅞"	⅞"	1"	1"	1"	1"
Material	Carbon Steel, Flame Hardened					
End Blades						
Length	1'-7"	1'-7"	1'-11"	1'-11"	1'-11"	1'-11"
Width	8"	8"	10"	10"	10"	10"
Thickness	⅞"	⅞"	1"—1⅛"	1"—1⅛"	1"—1⅛"	1"—1⅛"
Material	Carbon Steel, Flame Hardened			Cast Manganese Steel		
Maximum Track Shoe Width	22"	22"	24"	24"	28"	28"
Sheave Diameter	7"	9½"	9½"	9½"	9½"	9½"
Grease Fittings	Alemite	Alemite	Alemite	Alemite	Alemite	Alemite
Kable Control Unit Model (Ordinarily Used)	G	HH	H	HHL	HM	JJ
Shipping Weight with Kable Control Unit (Approx.)	6300 lbs.	7990 lbs.	8370 lbs.	9430 lbs.	11,100 lbs.	13,180 lbs.
Shipping Weight without Kable Control Unit (Approx.)	5900 lbs.	6006 lbs.	7770 lbs.	7330 lbs.	10,650 lbs.	10,810 lbs.

Models KAF-14W, KAR-14W, KAF-18W, and KAR-18W also available for Standard Gauge Tractors.

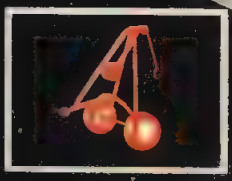
Slight variations in weight depending on type Kable Control Unit Ordered.

KAF denotes Kable Angle Blade with Front P.T.O.; KAR—Rear P.T.O.

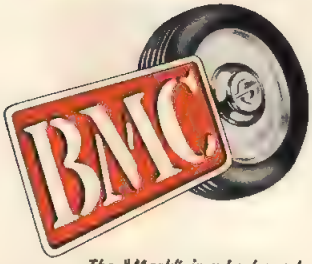
Note: Model designations in above specifications covering International Tractors TD-18 and TD-14 also cover Models TD-18A and TD-14A.

SUBJECT TO IMPROVEMENTS AND CHANGES IN SPECIFICATIONS WITHOUT NOTICE SPECIFY SERIAL NUMBER OF TRACTOR ON WHICH EQUIPMENT IS TO BE INSTALLED

471-4-51



STOCK B.M.C.-*the QUALITY line...*



The "Mark" in wheel goods

You'll agree that the B M C line offers *everything!* Practical new-era design . . . *quality* construction unequalled in the wheel goods field . . . longer age range that *appeals* to parents! What's more, the B M C line is a recognized leader—in popular demand all over the country. All these facts add up to MORE PROFITS for *YOU* when you handle the entire B M C line. Besides, you get the advantage of B M C's interesting line of attachments and accessories the only *complete* line of its kind!

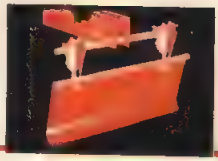
B M C MEANS FUN FOR *MORE* THAN ONE . . .

With a B M C Tractor and Sulky attachment, for example,

B M C MANUFACTURING CORPORATION

...the only line with COMPLETE sales appeal!

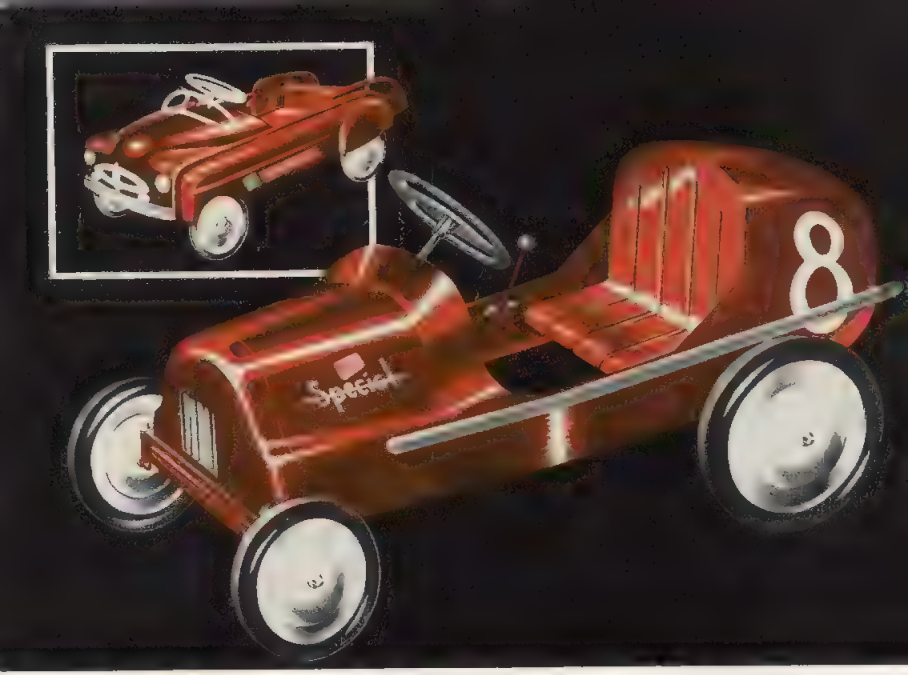
two children can have hours and hours of fun playing together. No more arguments! These are some of the reasons why parent prospects become eager customers. And when you point out the exclusive features that guarantee long age range, the super quality, the ease of operation and the extra fun that's "built into" all B M C models—Mister, you've made a sale! Stock the leader: Stock B M C *today!*



Write for FREE catalog—

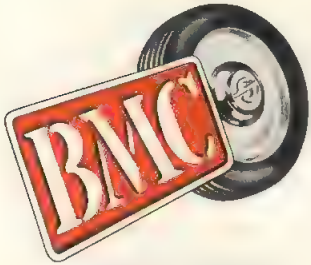
See the B M C new, popular-priced models and the established B M C leaders that mean *rapid sales turnover* for *you!*

B I N G H A M T O N , N. Y.



B.M.C. proudly presents the RACER and

THE NEW CHAMPIONS OF THE POPULAR-PRICED WHEEL GOODS FIELD



The "Mark" in wheel goods

Meet five stars of the new B M C line . . . five of the eight new models of dynamic design destined to capture the heart and imagination of every young prospect at first sight!

AUTHENTIC DETAIL CREATES REALISM

Like all B M C models, the racing car, the sportster, hook-and-ladder, dump truck and station wagon are smooth-riding . . . easy to operate, and feature streamlined styling right down

B M C M A N U F A C T U R I N G C O R P O R A T I O N

SPORTSTER SERIES!

to the smallest detail! For example, authentic racing car design makes B M C's "Special 8" faster than anything else in the wheel goods field!

COMPLETE LINE . . . LONGER AGE RANGE
MEAN RAPID SALES TURNOVER FOR YOU!

B M C is the *popular* line . . . the *complete* line, too! What's more, all B M C models have longer age range than any similar products. Remember B M C always means fast sales turnover: So stock the leader! Stock B M C *today!*

See our exhibit at The Toy Fair
Room 810 200 Fifth Ave. New York

Write for FREE catalog

See the complete line of B M C leaders that *assure* rapid sales turnover!

BINGHAMTON, NEW YORK

ROUNDUP
COWBOY OUTFIT

No. 1303J $40. dozen

HOLSTER—Tan and Black, genuine leather holsters with assorted size nailheads and contrasting crosspiece.

BELT — Wide genuine leather black belt with Die cast steerheads, bullets and nickle plated buckle.

PISTOL—HUBLEY Texan Jr.

PACKING — Individually packed in large 4 colored lithographed box. One or two dozen per carton. No. 303J the above may be had with a single holster, packed one or two dozen per carton.

303J Single $24. dozen

MANUFACTURED BY

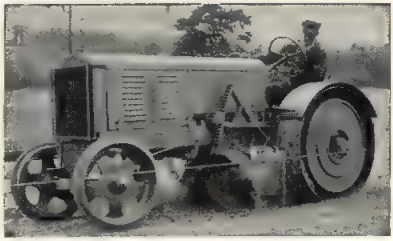
CARNELL MFG. CO., Inc.

774 FULTON STREET — **BROOKLYN 17, N. Y.**

New York Showroom: 200 FIFTH AVE., N. Y.

CLEVELAND-FORMGRADER EQUIPMENT

THE CLEVELAND FORMGRADER



The Cleveland Formgrader is a heavy duty machine weighing 6500 pounds, powered by a 63 Horse power Governor controlled Gas engine.

This machine cuts a form TRENCH 18" wide giving ample width for properly setting the widest base forms.

Due to the power driven revolving blade cutter, (which is vertically controlled by the operator), the FORM TRENCH can be cut true to line and grade.

As there is a pendulum controlled line gauge on the revolving blade cutter frame the FORM TRENCH can be cut correct regardless of the ground surface.

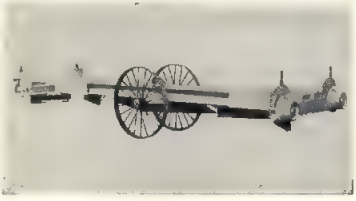
The accuracy of the FORM TRENCH is produced by following the MARK on the hair spring line gauge and holding it against the grade line.

Breakage is prevented by a spring loaded safety clutch which will slip when the revolving blade cutter strikes a buried obstruction.

The traction wheel is 12" wide tread and a heavy counter weight added for roller action. This leaves the FORM TRENCH rolled and ready for placing the forms.

For accurate and speedy FORM TRENCH CUTTING you need but one operator and a Cleveland Formgrader.

THE CLEVELAND PUSH PLANER



The push Planer is equipped with diagonally arranged high carbon single edge curved cutting blades mounted on a heavy structural steel frame.

Fine grade accuracy is assured because of ample weight, sharp cutting edges blades, and machined form wheels.

All the following features are incorporated in these machines: Vertical adjustments on form wheel supports for different form heights, eccentric axles in all form wheels for soil irregularities, vertical adjustments on all cutting blades for crown setting.

Made in combination widths, furnished with or without transportation wheels. Adjustable push bars or pulling cable optional.

CLEVELAND TRAILGRADERS

The Cleveland Heavy Duty Trailgrader is rugged in construction, low enough to go under the distributing bucket when pulled by paving mixer. Its purpose is to finish the subgrade to exact contour just before the concrete is placed. The Trailgrader is equipped with blades straight across, has double edge disc shaped high carbon steel cutting edge blades mounted on vertical adjustable supports for setting various subgrade crowns.

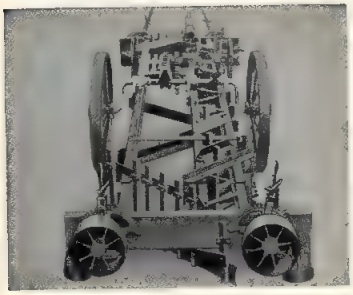
Axle supports on end of machine have vertical adjustments for different form heights.

Form wheels are machined with one straight and one eccentric axle on each end of machine. Transportation wheel mounted on straight axle. Made in combination widths, with 2' adjustments on standard sizes.

These machines are made in combination of sizes from 9 to 30'.

Junior Trailgraders are available for light duty service. They have single edge blades and machined form wheels but are not furnished with transportation wheels. Made in combination road widths varying from 9 to 22 feet.

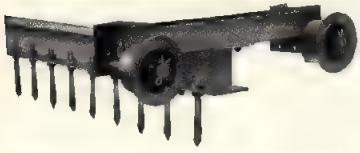
CLEVELAND-FORMGRADER EQUIPMENT



SUBGRADE SCRAPER

This machine is a money-saver on fine grading and is made in adjustable widths of 9 to 12 feet, 15 to 20 feet, 18 to 22 feet and 20 to 26 feet. Other sizes are built to order.

Hand levers working over notched quadrants control the working adjustments. Stops are provided in the quadrants which can be set to exact cutting depth, causing the grade to be planed to exact depth only. Blades are easily adjusted to the crown because they are carried on firmly anchored upright standards. This piece of equipment is equipped with an 80-foot pulling cable.



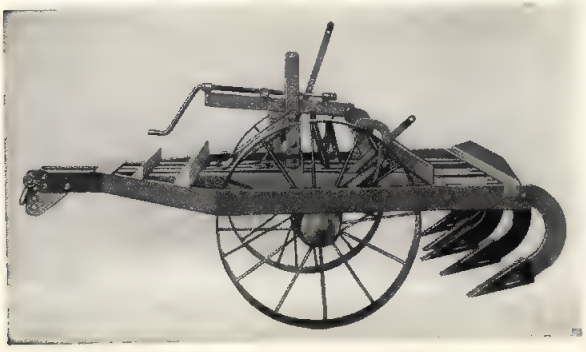
SUBGRADE SCRATCH TEMPLATE

The accuracy of this machine is unusual because of its rugged, sagless construction and weight. The pins are strong and bend-proof and are easily adjusted to crown. The side trucks allow the Template to roll easily and the wheels have machined treads for accuracy. The beam can be adjusted vertically on the side trucks to meet all conditions of pavement thicknesses and cross section. Made in combination widths for roads 8' to 30' wide.

SEVEN-TOOTH ROOTER

This rooter does the work of a rooter plow but does it faster and better because it has seven teeth and can root 48" wide and to a maximum depth of 12". It can be easily handled by small tractors yet it is built to stand the heaviest pull.

Cast disc wheels can be provided to increase the weight necessary for unusually tough digging.



CLEVELAND RIPPERS

There is an all-weld construction ripper for every need. They are equipped with five removable teeth standards with self-sharpening replaceable alloy steel points.

This machine is manually controlled with cables which are operated by the tractor operator.

Separate levers control the lowering and lifting mechanisms Made in several weights.

375-2-50

CLEVELAND-FORMGRADER EQUIPMENT

ALUMINUM STRAIGHTEDGES

This all aluminum tool is furnished with either flat or round bottom. The blade weighs but four pounds and is 10' long. Twelve foot handle is standard; longer handles available.

STEEL straight edges are made of oblong steel tubing 10 feet long with either flat or round bottoms. The handle is the standard 12-foot length, but longer lengths are available. We also manufacture steel lutes in sizes varying from 4 to 10 feet in length.

FORM PULLERS

Lift forms and stakes without damage. They pull straight up no bending. Furnished with 12" diameter solid rubber tired wheels or 18" pneumatic tires; stake puller attachment can be furnished.

FORM TAMPER

The New Form Tamper is now made in right or left hand models to operate on each form operating in the same direction. Each machine will clear keys on the forms where dual slabs are made and will preform the same operations. The incline tampers contact the earth under both sides of the forms at the same moment, they also oil the inside of the form as the machine progresses. Travel speed on form 25' per minute forward. They require one man operation only and does its job with ½ less settlement than with hand tampers and much faster.

CONCRETE STRIKE-OFFS

Where reinforcing mesh is to be placed this concrete strike-off enables you to strike the bottom course of concrete quickly and accurately.

Vertical adjustment on each side truck allows greater depth variation. The wheels are machined and carried on eccentric axles for lifting machine over expansion joints and minor vertical adjustments, assuring you that when the top course is finally placed the reinforcing will be in the right position in the slab Made in combination widths for roads 9' to 30' wide.

375-J 51

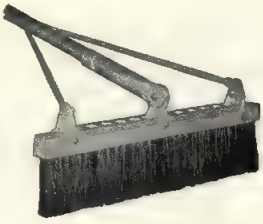
CLEVELAND-FORMGRADER EQUIPMENT

FLOAT BRIDGES

Single float bridges are made with 16" plank-ways. The longitudinal bridges are made of two single bridges spaced apart by means of pipes clamped at the side of the trucks which are sufficiently long to accommodate floats 10 to 14 feet in length.

All bridges are built with 2' adjustment and can be furnished with or without hand traction and belting mechanism. We also manufacture bridges for carrying burlap. This type of bridge has a 6' wide tongue-grooved deck.

PULL BROOMS



These are light weight Bass and Bassine pull brooms, 24" wide with 4½" fiber projections. The head block is of hard wood. The Bass has 2 rows of fiber and the Bassine has 3 rows. Adjustable aluminum holder and pole or malleable holder with steel pole available.

ALL-STEEL BULL FLOATS

Channel formed from steel plate, cross braced for stiffness. Vertical adjustment for correcting alignment. Plow handles furnished with vertical and width adjustment. Lighter than ordinary wood float, will not warp or lose shape. Furnished in the following sizes: 8, 10 and 12-inch widths. All width sizes 10, 12, 14 or 16 feet long.

LONG HANDLED TOGGLE ACTION FLOATS

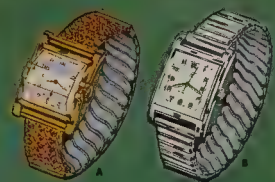
These floats have a beveled face and give a double action performance. They are made of 1/16" thick steel and furnished in sizes from 18"x5" to 36"x6". Also flat trowels of same sizes available. Furnished with 6' handles, longer handles furnished on request. We also have sheet metal floats in sizes 6" wide by 4', 5', and 6' long with 12' steel tubing handles.

FEATURING FAMOUS "JACQUES KREISLER" WATCH BANDS

√ Fully Guaranteed √ Shock Protected* √ Nationally Advertised √ Beautifully Gift Boxed
√ Anti-Magnetic √ Dust-Protected

incabloc

CLINTON WATCHES



All watches shown are slightly reduced in size Retail prices do not include existing federal taxes. Prices subject to change without notice.

A Handsome 10K YELLOW rolled gold plate case, steel back . . three-way beveled crystal . . gold-filled basket weave expansion band . . 17 jewel shock-protected* CLINTON movement.
570C **Retail $55.00**
Each $30.13

B Flashing, highly polished stainless steel case . . waterproof, shock-resistant . . large sweep second hand . . luminous dial . . matching Kreisler gold-filled expansion band . . . 17 jewel shock-protected* CLINTON movement
572C **Retail $64.50**
Each $35.77

Self-winding, Waterproof. 17 jewel shock-protected* CLINTON movement . . YELLOW case, steel back . . . sweep second hand . . . gold-filled expansion band.
574C **Retail $87.50**
Each $48.02
Same as above with all stainless steel case, leather strap.
576C **Retail $64.00**
Each $35.77

Winds itself automatically. 10K YELLOW rolled gold plate case, steel back . . . rock crystal . . . sweep second hand . . . Kreisler gold-filled expansion band . . . 17 jewel shock-protected* CLINTON movement.
578C **Retail $75.00**
Each $40.92

Handsome 14K YELLOW gold case . . dome crystal . . matching gold-filled expansion band . . 17 jewel shock-protected* CLINTON movement
580C **Retail $77.50**
Each $42.63

Luxurious, modern and handsome . polished 14K YELLOW gold case . . rich genuine alligator strap . . 17 jewel shock-protected* CLINTON movement
582C **Retail $115.00**
Each $62.72

10K YELLOW rolled gold plate water-resistant case, steel back . . Kreisler gold-filled expansion band . . 17 jewel shock-protected* CLINTON movement.
584C **Retail $87.50**
Each $31.60
Same as above with 7 jewels and strap.
585C **Retail $34.75**
Each $19.11

10K YELLOW rolled gold plate case, steel back . . pyramid crystal . . Kreisler gold-filled expansion band . . 17 jewel shock-protected* CLINTON movement
586C **Retail $45.00**
Each $24.75
Same as above with 7 jewels and strap.
587C **Retail $20.25**
Each $15.93

Popular 10K YELLOW rolled gold plate case, steel back . . dome crystal . . Kreisler gold-filled expansion band . . 17 jewel shock-protected* CLINTON movement.
588C **Retail $44.00**
Each $24.50

10K YELLOW rolled gold plate case, steel back . . three-way beveled crystal . . Kreisler gold-filled mesh weave band . . 17 jewel shock-protected* CLINTON movement
590C **Retail $52.00**
Each $28.18

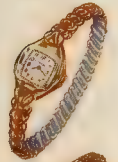
Free Display Case

With an initial order of any 8 watches, this display case is free if desired. Beautiful natural wood finish . . velvet lined . . Lock and key included Chain attached to secure to counter. Specify in your order if case is desired.

These prices are net No discount.

Ultra modern 10K YELLOW rolled gold plate case, steel back . . . dome crystal . . . 17 jewel shock-protected* CLINTON movement . . . modern gold-filled expansion bracelet.
540C Retail $46.50
Each $25.48

Smartly styled 10K YELLOW rolled gold plate case, steel back . . . dome crystal . . . Kreisler gold-filled expansion bracelet . . . 17 jewel shock-protected* CLINTON movement.
542C Retail $46.50
Each $25.48



Multi-faceted 10K YELLOW rolled gold plate case, steel back . . . rock crystal . . . gold-filled expansion bracelet . . . 17 jewel shock-protected* CLINTON movement.
544C Retail $43.50
Each $23.77

Alluring 10K YELLOW rolled gold plate case, steel back . . . rock crystal . . . Kreisler gold-filled solid end bracelet . . . 17 jewel shock-protected* CLINTON movement.
546C Retail $50.00
Each $27.20

A lovely 10K YELLOW rolled gold plate case, steel back . . . dome crystal . . . gold-filled expansion bracelet . . . 17 jewel shock-protected* CLINTON movement.
548C Retail $49.50
Each $26.95

Modern 10K YELLOW rolled gold plate case, steel back . . . dome crystal . . . 17 jewel shock-protected* CLINTON movement . . . gold-filled expansion bracelet.
550C Retail $45.00
Each $24.75

10K YELLOW rolled gold plate case, steel back . . . dome crystal . . . matching gold-filled expansion bracelet . . . 17 jewel shock-protected* CLINTON movement.
552C Retail $41.50
Each $22.79

Beautiful 10K YELLOW rolled gold plate case, steel back . . . 17 jewel shock-protected* CLINTON movement . . . rock crystal . . . gold-filled expansion bracelet.
554C Retail $44.00
Each $24.25

10K YELLOW rolled gold plate case, steel back . . . rock crystal . . . 17 jewel shock-protected* CLINTON movement.
556C Retail $38.00
Each $20.58
Same as above with 7 jewels.
557C Retail $30.25
Each $16.41

New, richly styled YELLOW bangle bracelet watch . . . stainless steel back . . . curved crystal . . . 17 jewel shock-protected* CLINTON movement.
558C Retail $64.00
Each $35.04

Traditional 10K YELLOW rolled gold plate case, steel back . . . 17 jewel shock-protected* CLINTON movement.
560C Retail $36.50
Each $20.09
Same as above with 7 jewel shock-protected* CLINTON movement.
561C Retail $25.25
Each $13.72

Enhancing 10K YELLOW rolled gold plate case, steel back . . . matching gold-filled expansion bracelet . . . 17 jewel shock-protected* CLINTON movement.
562C Retail $40.25
Each $22.05

Multi-faceted 10K YELLOW rolled gold plate case, steel back . . . dome crystal . . . gold-filled expansion bracelet . . . 17 jewel shock-protected* CLINTON movement.
564C Retail $45.00
Each $24.75

Dazzling hand set rhinestones in WHITE case, steel back . . . 17 jewel shock-protected* CLINTON movement.
566C Retail $52.00
Each $27.93

Richly styled lapel watch . . . hand set rhinestones in WHITE case, steel back . . . 17 jewel shock-protected* CLINTON movement.
568C Retail $49.50
Each $26.70

Fashion-styled ✶ *Ultra precision*

FEATURING FAMOUS "JACQUES KREISLER" WATCH BRACELETS

incabloc

CLINTON WATCHES

√ Fully Guaranteed √ Shock Protected √ Nationally Advertised
√ Beautifully Gift Boxed √ Anti-Magnetic √ Dust-Protected

CLINTON watches reflect the utmost in fashion styling and jewelry craftsmanship. Long famous for unsurpassed accuracy and dependability . . . **CLINTON** watches now offer greater assurance of years of trouble-free service with new shock-protected Incabloc* features. Every **CLINTON** watch is boxed in a beautiful presentation case.

***INCABLOC . . .** *The finest available Shock-Protecting system*

TWENTY brilliant genuine diamonds . . . 14K WHITE gold case . . . 17 jewel shock-protected* CLINTON movement . . . dome crystal . . . Kreisler gold-filled snake bracelet.
500C
Retail $310.00
Each $168.07

CLINTON

GUARANTEE

Every CLINTON watch is fully guaranteed against any factory defects in material and craftmanship. All parts are standard and interchangeable. Each movement is electronically tested and inspected to conform with CLINTON'S rigid standards.

16 glittering genuine diamonds . . . 14K WHITE gold case . . . rock crystal . . . 17 jewel shock-protected* CLINTON movement . . . Kreisler gold-filled double snake bracelet.
502C, Retail $225.00
Each $123.48

EIGHT genuine diamonds in fishtail setting, 14K WHITE gold case . . . dome crystal . . . Kreisler gold-filled expansion bracelet . . . 17 jewel shock-protected* CLINTON movement.
504C, Retail $190.00
Each $102.90

TEN genuine diamonds in a 14K WHITE gold case . . . rock crystal . . . Kreisler gold-filled snake bracelet . . . 17 jewel shock-protected* CLINTON movement.
506C, Retail $197.50
Each $109.76

SIX fiery genuine diamonds in smartly styled 14K WHITE gold case . . . dome crystal . . . 17 jewel shock-protected* CLINTON movement.
508C, Retail $137.50
Each $75.46

TWO genuine diamonds . . . 14K YELLOW gold case . . . Kreisler gold-filled bracelet . . . 17 jewel shock-protected* CLINTON movement.
510C, Retail $105.00
Each $57.33

Same as above in 14K WHITE gold.
512C, Retail $105.00
Each $57.33

FOUR sparkling genuine diamonds in 14K WHITE gold case . . . curved crystal . . . 17 jewel shock-protected* CLINTON movement.
514C, Retail $115.00
Each $63.21

All watches shown are slightly reduced in size. Retail prices do not include existing federal taxes. Prices subject to change without notice.

These prices are net. No discount.

14K YELLOW gold case, dome crystal with Kreisler gold-filled solid end bracelet ... 17 jewel shock-protected* CLINTON movement.
520C Retail **$70.00**
Each $37.73

Same as above in 14K WHITE gold case.
522C Retail **$70.00**
Each $37.73

*incabloc

CLINTON

Fashion-styled * *Ultra precision*

14K YELLOW gold case with curved crystal ... 17 jewel shock-protected* CLINTON movement ...Kreisler gold-filled expansion bracelet
524C, Retail $64.50
Each $35.77

14K YELLOW gold case ... 17 jewel shock-protected* CLINTON movement ... rock crystal ... matching Kreisler gold-filled bracelet.
526C, Retail $60.25
Each $33.07

Two diamonds in 10K WHITE R.G.P. ... steel back ... 17 jewel shock-protected* CLINTON movement.
528C, Retail $56.50
Each $30.87

Same in YELLOW.
530C, Retail $56.50
Each $30.87

14K YELLOW gold case ... dome crystal ... 17 jewel shock-protected* CLINTON movement ...Kreisler gold-filled solid end bracelet.
532C, Retail $57.50
Each $31.60

NURSE'S 10K YELLOW R.G.P. case, steel back ... RED SWEEP second hand ... 17 jewel shock-protected* CLINTON movement ... gold-filled bracelet.
534C, Retail $52.75
Each $28.91

10K YELLOW rolled gold plate case ... steel back ... dome crystal ... 17 jewel shock-protected* CLINTON movement ... gold-filled expansion bracelet.
536C, Retail $49.50
Each $26.95

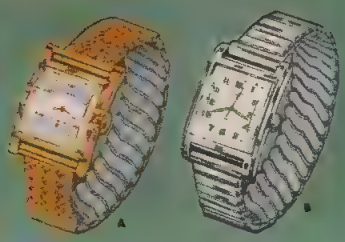
FEATURING FAMOUS "JACQUES KREISLER" WATCH BANDS

√ Fully Guaranteed √ Shock Protected* √ Nationally Advertised √ Beautifully Gift Boxed
√ Anti-Magnetic √ Dust-Protected

All watches shown are slightly reduced in size. Retail prices do not include existing federal taxes. Prices subject to change without notice

incabloc

CLINTON WATCHES



A Handsome 10K YELLOW rolled gold plate case, steel back . . three-way beveled crystal . . . gold-filled basket weave expansion band . . 17 jewel shock-protected* CLINTON movement.
3J570C Retail **$55.00**
Each $30.13

B Flashing, highly polished stainless steel case . . . waterproof, shock-resistant . . large sweep second hand . . luminous dial . . . matching Kreisler gold-filled expansion band . . 17 jewel shock-protected* CLINTON movement.
3J572C Retail **$64.50**
Each $35.77

AUTOMATIC-WATERPROOF

Self-winding, Waterproof. 17 jewel shock-protected* CLINTON movement . . . YELLOW case, steel back . . . sweep second hand . . . gold-filled expansion band.
3J574C Retail **$87.50**
Each $48.02

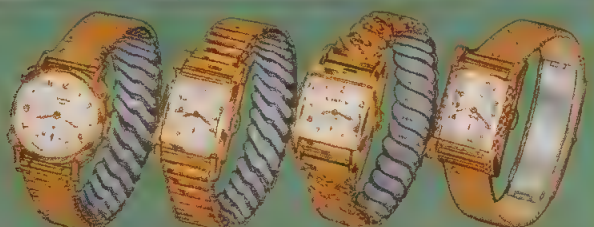
Same as above with all stainless steel case, leather strap.
3J576C Retail **$64.00**
Each $35.77

AUTOMATIC SELF-WINDING WATCH

Winds itself automatically. 10K YELLOW rolled gold plate case steel back . . rock crystal . . sweep second hand . . . Kreisler gold-filled expansion band . . . 17 jewel shock-protected* CLINTON movement
3J578C Retail **$75.00**
Each $40.92

Handsome 14K YELLOW gold case . . . dome crystal . . . matching gold-filled expansion band . . . 17 jewel shock-protected* CLINTON movement.
3J580C Retail **$77.50**
Each $42.63

Luxurious modern and handsome . . polished 14K YELLOW gold case . . rich genuine alligator strap . . 17 jewel shock protected* CLINTON movement
3J582C Retail **$115.00**
Each $62.72



10K YELLOW rolled gold plate water-resistant case, steel back . . Kreisler gold-filled expansion band . . 17 jewel shock-protected* CLINTON movement
3J584C Retail **$57.50**
Each $31.60

Same as above with 7 jewels and strap
3J585C Retail **$34.75**
Each $19.11

10K YELLOW rolled gold plate case, steel back . . pyramid crystal . . Kreisler gold-filled expansion band . . 17 jewel shock-protected* CLINTON movement
3J586C Retail **$45.00**
Each $24.75

Same as above with 7 jewels and strap
3J587C Retail **$29.25**
Each $15.93

Popular 10K YELLOW rolled gold plate case, steel back . . dome crystal . . . Kreisler gold-filled expansion band . . . 17 jewel shock-protected* CLINTON movement
3J588C Retail **$44.00**
Each $24.50

10K YELLOW rolled gold plate case, steel back . . three-way beveled crystal . . . Kreisler gold-filled mesh weave band . . 17 jewel shock-protected* CLINTON movement
3J590C Retail **$52.00**
Each $28.18

Free Display Case

With an initial order of any 8 watches, this display case is free if desired. Beautiful natural wood finish . . velvet lined . . . Lock and key included. Chain attached to secure to counter. Specify in your order if case is desired

These prices are net. No discount.

Fashion-styled Ultra precision

FEATURING FAMOUS "JACQUES KREISLER" WATCH BRACELETS

*incabloc

CLINTON WATCHES

√ Fully Guaranteed √ Shock Protected √ Nationally Advertised
√ Beautifully Gift Boxed √ Anti-Magnetic √ Dust-Protected

CLINTON watches reflect the utmost in fashion styling and jewelry craftsmanship. Long famous for unsurpassed accuracy and dependability . . . **CLINTON** watches now offer greater assurance of years of trouble-free service with new shock-protected Incabloc* features. Every **CLINTON** watch is boxed in a beautiful presentation case.

***INCABLOC . . .** *The finest available Shock-Protecting system*

TWENTY brilliant genuine diamonds . . . 14K WHITE gold case . . . 17 jewel shock-protected* CLINTON movement. . . dome crystal . . Kreisler gold-filled snake bracelet
3J500C Retail $310.00
Each $168.07

CLINTON

GUARANTEE

Every CLINTON watch is fully guaranteed against any factory defects in material and craftsmanship. All parts are standard and interchangeable. Each movement is electronically tested and inspected to conform with CLINTON'S rigid standards.

16 glittering genuine diamonds 14K WHITE gold case . . rock crystal . . 17 jewel shock-protected* CLINTON movement . . Kreisler gold-filled double snake bracelet.
3J502C Ret. $225.00
Each $123.48

EIGHT genuine diamonds in fishtail setting. 14K WHITE gold case . . . dome crystal . . Kreisler gold-filled expansion bracelet . . . 17 jewel shock-protected* CLINTON movement.
3J504C Ret. $190.00
Each $102.90

TEN genuine diamonds in a 14K WHITE gold case . . rock crystal . . Kreisler gold-filled snake bracelet . . . 17 jewel shock-protected* CLINTON movement
3J506C Ret. $197.50
Each $109.76

SIX fiery genuine diamonds in smartly styled 14K WHITE gold case . . dome crystal . . . 17 jewel shock-protected* CLINTON movement.
3J508C Ret. $137.50
Each $75.46

TWO genuine diamonds . . . 14K YELLOW gold case . . . Kreisler gold-filled bracelet . . . 17 jewel shock-protected* CLINTON movement
3J510C Ret. $105.00
Each $57.33

Same as above in 14K WHITE gold
3J512C Ret. $105.00
Each $57.33

FOUR sparkling genuine diamonds in 14K WHITE gold case . . . curved crystal . . . 17 jewel shock-protected* CLINTON movement
3J514C Ret. $115.00
Each $63.21

All watches shown are slightly reduced in size. Retail prices do not include existing federal taxes. Prices subject to change without notice.

These prices are net. No discount.

14K YELLOW gold case... dome crystal with Kreisler gold-filled solid end bracelet ... 17 jewel shock-protected* CLINTON movement.
3J520C Retail $70.00
Each $37.73
Same as above in 14K WHITE gold case.
3J522C Retail $70.00
Each $37.73

incabloc

CLINTON

Fashion-styled ✳ *Ultra precision*

14K YELLOW gold case with curved crystal . . . 17 jewel shock-protected* CLINTON movement . Kreisler gold-filled expansion bracelet
3J524C Ret. $64.50
Each $35.77

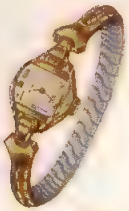
14K YELLOW gold case . . . 17 jewel shock-protected* CLINTON movement . . . rock crystal . . . matching Kreisler gold-filled bracelet
3J526C Ret $60.25
Each $33.07

Two diamonds in 10K WHITE R.G.P. ... steel back ... 17 jewel shock-protected* CLINTON movement.
3J528C Ret $56.50
Each $30.87
Same in YELLOW.
3J530C Ret. $56.50
Each $30.87

14K YELLOW gold case . . . dome crystal . . . 17 jewel shock-protected* CLINTON movement . Kreisler gold-filled solid end bracelet
3J532C Ret. $57.50
Each $31.60

NURSE'S 10K YELLOW R.G.P. case, steel back . . . RED SWEEP second hand . . . 17 jewel shock-protected* CLINTON movement . gold-filled bracelet
3J534C Ret. $52.75
Each $28.93

10K YELLOW rolled gold plate case . . . steel back . . . dome crystal . . . 17 jewel shock-protected* CLINTON movement gold-filled expansion bracelet
3J536C Ret. $49.50
Each $26.95



Ultra modern 10K YELLOW rolled gold plate case, steel back . . dome crystal . . . 17 jewel shock-protected* CLINTON movement . . . modern gold-filled expansion bracelet

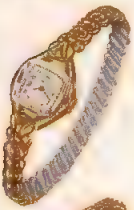
3J540C Retail $46.50

Each $25.48

Smartly styled 10K YELLOW rolled gold plate case, steel back . . . dome crystal . . Kreisler gold-filled expansion bracelet . . 17 jewel shock-protected* CLINTON movement.

3J542C Retail $46.50

Each $25.48



Multi-faceted 10K YELLOW rolled gold plate case, steel back . . . rock crystal . . . gold-filled expansion bracelet . . . 17 jewel shock-protected* CLINTON movement

3J544C Retail $43.50

Each $23.77

Alluring 10K YELLOW rolled gold plate case, steel back . . . rock crystal . . . Kreisler gold-filled solid end bracelet . . 17 jewel shock-protected* CLINTON movement.

3J546C Retail $50.00

Each $27.20

A lovely 10K YELLOW rolled gold plate case, steel back . . dome crystal . . gold filled expansion bracelet . . 17 jewel shock-protected* CLINTON movement.

3J548C Retail $49.50

Each $26.95

Modern 10K YELLOW rolled gold plate case steel back . . dome crystal . . 17 jewel shock-protected* CLINTON movement . . . gold-filled expansion bracelet.

3J550C Retail $45.00

Each $24.75

10K YELLOW rolled gold plate case, steel back . . dome crystal . . . matching gold-filled expansion bracelet . . . 17 jewel shock-protected* CLINTON movement.

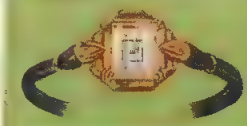
3J552C Retail $41.50

Each $22.79

Beautiful 10K YELLOW rolled gold plate case, steel back . . 17 jewel shock-protected* CLINTON movement . . . rock crystal . . . gold-filled expansion bracelet.

3J554C Retail $44.00

Each $24.25



10K YELLOW rolled gold plate case, steel back . . rock crystal . . . 17 jewel shock protected* CLINTON movement.

3J556C Retail $38.00

Each $20.58

Same as above with 7 jewels.

3J557C Retail $30.25

Each $16.41

Now, richly styled YELLOW bangle bracelet watch . . stainless steel back . . curved crystal . . . 17 jewel shock-protected* CLINTON movement.

3J558C Ret. $64.00

Each $35.04

Traditional 10K YELLOW rolled gold plate case, steel back . . . 17 jewel shock-protected* CLINTON movement.

3J560C Retail $36.50

Each $20.09

Same as above with 7 jewel shock-protected* CLINTON movement

3J561C Retail $25.25

Each $13.72

Enhancing 10K YELLOW rolled gold plate case, steel back . . . matching gold-filled expansion bracelet . . 17 jewel shock-protected* CLINTON movement

3J562C Retail $40.25

Each $22.05

Multi-faceted 10K YELLOW rolled gold plate case, steel back . . . dome crystal . . . gold-filled expansion bracelet . . . 17 jewel shock-protected* CLINTON movement.

3J564C Retail $45.00

Each $24.75

Dazzling hand set rhinestones in WHITE case, steel back . . . 17 jewel shock-protected* CLINTON movement.

3J566C Retail $52.00

Each $27.93

Richly styled lapel watch . . hand set rhinestones in WHITE case, steel back . . . 17 jewel shock-protected* CLINTON movement

3J568C Retail $49.50

Each $26.70

A Complete Line of FOUR & SIX WHEEL DRIVE TRUCKS . . .

FWD offers a wide range of models, with capacities to meet the requirements of every truck job, from light duty to extra heavy duty on or off the highway applications. Outstanding performers in every phase of service, FWD trucks assure a wider, more dependable range of profitable operations, with greater safety and economy in every season and on every type of road.

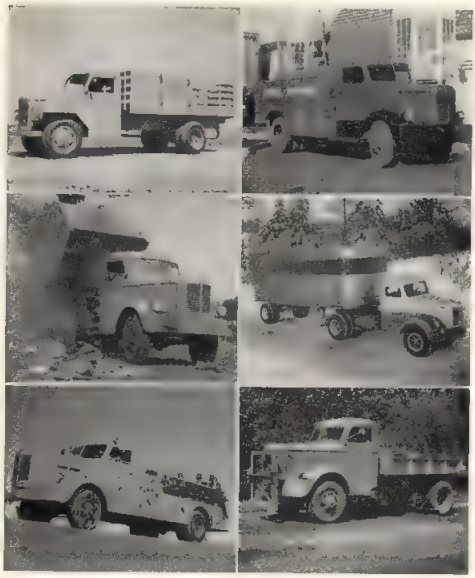
GREATER TRACTION— PERFORMANCE— SAFETY WITH FWD POWER ON ALL WHEELS

FWD MODEL LD—True four wheel drive in the light duty class, with wide choice of wheelbases to accommodate every type of body or equipment. Up to 14,500 lbs. G V W

FWD MODEL HA AND HR—Features low frame height, five speed transmission, gasoline engine powered. Optional diesel engine available for model HR. 17,000 and 20,000 lbs. G V W subject to increase depending on type of operation.

FWD MODEL HRC—Fast, safe semi-trailer transport, available with either gasoline or diesel engine. 24,000 lbs. G.V.W. (60,000 lbs. gross train weight.)

FWD MODEL HG MAINTAINER—Designed especially for year 'round, all-purpose road maintenance. Either gasoline or diesel engine. 20,000 lbs. G V W. (Model variations permit increase to 25,000 lbs. G.V.W.)



COMMERCIAL TRANSPORT—Capacity loads hauled safely, dependably—over every road—with FWD four wheel drive.

SANITARY GARBAGE COLLECTION—Maneuverability in narrow streets and alleys, power and speed to maintain collection schedules.

FIRE FIGHTING—FWD four wheel drive grips the road for safety on curves or slippery pavement, powers through sand or mud to the fire or to the source of water.

GASOLINE AND FUEL DISTRIBUTION—Greater safety through FWD stability and positive, easy control.

HIGHWAY TRANSPORT—Year around profitable freight hauling, faster trip time, safer with FWD four wheel drive traction.

ROAD MAINTAINING—Grades fast, hauls loads, tows equipment in year around road work

Capacities — Power — and Equipment for Every Truck Job

117-1-51

ICE REMOVAL—FWD with underbody blade clears roads of hard packed snow or ice for safe winter travel.
AIRPORT MAINTENANCE—FWD clears winter runways, hauls loads and maintains strips and aprons.
CONSTRUCTION SERVICE—FWD hauls loads through loose footing, over obstructions, up embankments

LOG HAULING—Built-in stamina and power for profitable woodland operations.
PULPWOOD HAULING—Capacity loads directly from the cutting site, over unimproved roads and trails.
AERIAL LADDERS—Stability and safety of FWD four wheel drive takes emergency equipment to the fire.

FWD "U" Series Four Wheel Drive Trucks

A series ideally suited to dozens of applications in highway, construction, oil field, logging, and general heavy duty services. FWD Model SU below, left, available with either gasoline or diesel engine. 28,000 lbs. G.V.W.

FWD MODEL YU—Medium heavy-duty with either gasoline or diesel engine. 30,000 lbs. G V W

FWD MODEL ZU— Features removable front skirting for installation of auxiliary equipment. Gasoline or diesel powered 84,000 lbs. G.V.W

FWD Performance Gets Jobs Done on Time — At Low Cost

117-2-51

Correct Design—Quality Construction

Pioneers in the development of the four wheel drive principle and its application to the requirements of truck service since 1910, FWD has maintained undisputed leadership through strict adherence to the highest automotive standards of design and manufacture, and through continuous engineering research in the needs of truck operators in every world market.

ROAD CONSTRUCTION—Efficient in hauling materials and equipment FWD is a favorite with officials in dozens of road jobs.

OIL FIELD TRANSPORT—Power and traction to haul heavy loads in the rough footing of the oil fields.

TRUCK - MOUNTED SHOVEL—FWD carries heavy equipment into the work locations, travels fast from job to job.

ROAD OILING—Correct gear ratios, properly maintained speeds for a smooth, efficient job

CRASH AND WRECKER—Unusual emergency services depend on FWD four wheel drive for reliable performance.

SNOW REMOVAL—FWD straight-ahead smashing power opens snow-blocked roads fast.

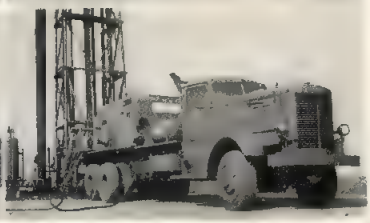
FWD "M" Series Four Wheel Drive Trucks

Rated among the most powerful trucks in the world, FWD "M" series features a powerful gasoline or diesel engine, double reduction axles, massive straight frame, ten forward and two reverse speeds

FWD MODEL M10—Same as M7 with greater horsepower and capacity. 44,000 lbs. G.V.W.

FWD MODEL M7—Double reduction axles, ten-speeds forward and two reverse, gasoline diesel power 40,000 lbs G V W

FWD Distributors Offer Complete Sales and Service Facilities

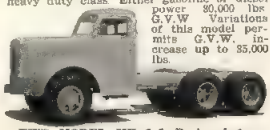


ROTARY SNOW PLOW Winter's worst snow blockades broken with FWD powered rotary plows.
HEAVY EQUIPMENT HAULING—FWD speeds slow-moving machinery between jobs.
MATERIALS HAULING—FWD delivers the heavy loads into the tough spots.

TRUCK MOUNTED MIXER FWD six wheeler speeds mat finishing for construction job.
6x6 **TRANSPORT**—Fast, economical transport of massive loads directly to the job location.
OIL DERRICK RIG—FWD six wheel drive leads in performance when huge loads are moved in the oil fields.

FWD 6x6 Series
Six Wheel Drive Trucks

By their outstanding ability to deliver maximum payloads over every type of road all year 'round FWD six wheelers have earned a preferred position with operators in extra heavy duty fields. A wide range of models in this series offers ideal selection of capacities, gear ratios and power for a wide variety of truck jobs.



FWD MODEL H 6x6—Provides wider work range, greater performance in the medium-heavy duty class. Either gasoline or diesel power. 30,000 lbs. G.V.W. Variations of this model permits G.V.W. increase up to 35,000 lbs.

FWD MODEL M6x6—Largest in the FWD line has ten forward speeds, double reduction axles. Powered with either gasoline or diesel engine 60,000 lbs. G.V.W.

FWD MODEL MU 6x6—Designed for a wide range of extra-heavy duty services. Available with either gasoline or diesel power. 45,000 lbs. G.V.W.

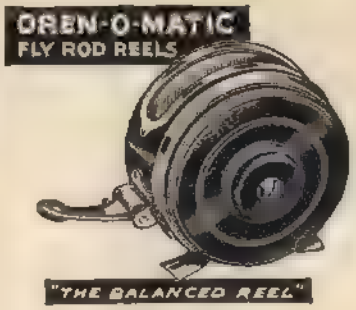
Write or Call for Complete Specifications

117-4-51

Automatic and Single Action FLY REELS

Martin Tuffy No. 63. Low priced automatic fly wheel finished in mottled grey with nacural aluminum trim. Well constructed of strong materials. Knot-free stripping. Retail 7.50.

No. 16R80 Each 4.41



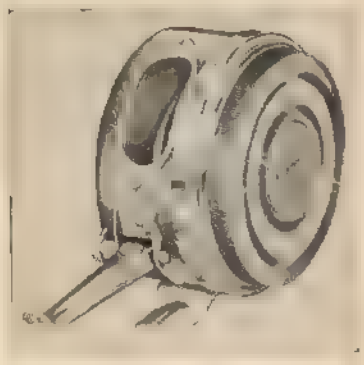
South Bend Oren-O-Matic Fly Reel. A free-stripping, automatic reel that operates silently. Aerated to prevent fouling with green enamel finish, gold trim. Adjustable line brake must take down. No excessive clearance between spool and frame.

No. 16R53. Capacity 70 yds. Retail 10.50. Each 6.18

No. 16R54 Capacity 80 yds. Retail 11.00. Each 6.47

Shakespeare SBent Tru-Art Automatic Fly Reel No. 1837. This free stripping reel has a green anodized aluminum frame and head cap. Chrome plated nickel-proto for on both sides makes it suitable for right or left hand use. 90 yard G line capacity. Weight 9¼ oz. Retail 10.50.

No. 16R27. Each..... ...6.18



Martin Blue Chip No. 83. Finest quality automatic fly reel range. Made of finest materials available. All working parts hand polished to extreme accuracy. Exterior finish in bronze color with gun-metal trim. Non-slipping, silent wire take-down fenture and adjustable release lever are included. Each reel, complete with chamois bag. Retail 22.50.

No. 16R81. Each 13.23

Martin Fly-Wate Model 38G. Automatic fly reel ideal for light tackle outfits. Made of green anodized aluminum alloy. Full free-stripping; silent winding; adjustable release lever. 225 feet G line capacity. Retail 10.50.

No. 16R83. Each 6.18

Ocean City Automatic Fly Reel No. 90. New type fly reel with one-piece die-cast aluminum frame; chrome-plated line guide; aluminum spool, one-screw take apart. Gear and spool brake packed in grease. 80 yard capacity. Retail 12.50.

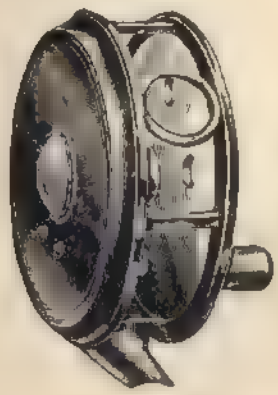
No. 16R120. Each 7.35

Heddon No. 57. Automatic fly reel finished in anodized mahogany. Free stripping. Well constructed of high quality materials. Features moderate capacity without excess weight. Retail 10.50.

No. 16R86. Each 6.18

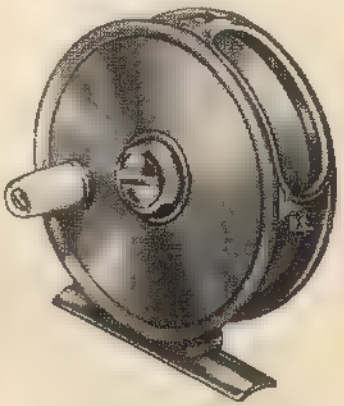
Martin Fly-Wate Model 48. Upright model automatic fly reel, light in weight yet sturdy in construction. Free stripping, non-slipping silent winding mechanism; easy take down. Green anodized finish. 225 foot G line capacity. Retail 10.50.

No. 16R84. Each 6.18



Ocean City Fly Reel No. 35. Light weight aluminum reel, finished in black baked enamel, equipped with Duo Drag—adjustable click and silent drag. Chrome line guide; aluminum spool. Weight 5 oz. 60 yards line capacity. Retail 3.95.

No. 16R117. Each 2.32

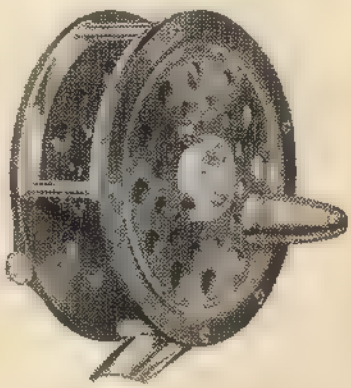


Ocean City Plymouth Fly Reel No. 76. Constructed of one-piece aluminum with gun-metal finish, this reel can be used as a right and left hand wind. Aluminum spool, screw take apart. 60 yards capacity. Retail 5.95.

No. 16R110. Each 3.50

Ocean City Plymouth Fly Reel No. 77. As above 100-yard capacity. Retail 7.50.

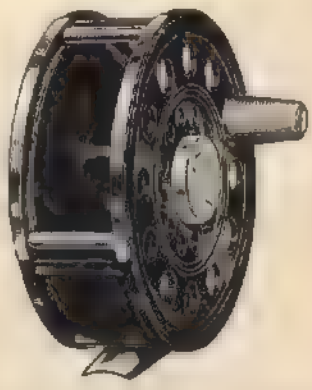
No. 16R109. Each.....4.46



Pflueger Medalist Reel. An outstanding reel of the Trout and Salmon class. Stainless steel line guard; adjustable drag automatic click in a gun metal finish. Exclusive adjustable weight feature.

No. 16R32. 5⅛ oz. Retail 9.00. Each 5.78

No. 16R33. 6 oz. Retail 9.50. Each 6.12



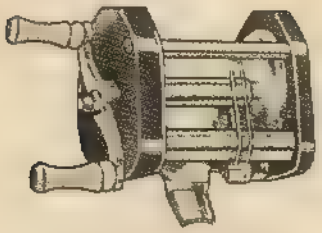
Heddon "Imperial" Fly Rod. Entire frame and spool are of die-cast aluminum, anodized in the dull black finish. Reel or line guide has a rectangular opening and smooth running roller at top and bottom. Bearings are of steel and bronze. Click and rachet gear are heat treated steel. Weight 5 oz. Diameter 3¼ inches. Retail 12.50. Dealer 7.50.

No. 16R57. Less 2% Net Each 7.06

OCEAN CITY
HEDDON

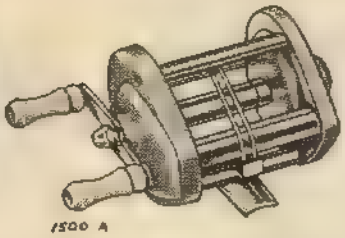
BAIT CASTING REELS

BRONSON
MARTIN



Ocean City No. 1529. Semi-streamlined reel with strong frame black bakelite side plates. Heavily nickel plated. Well made level wind. On-off click. Retail 2.50.

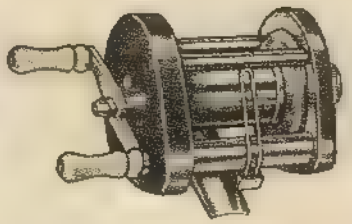
No. 16R111. Each.....1.47



1500 A

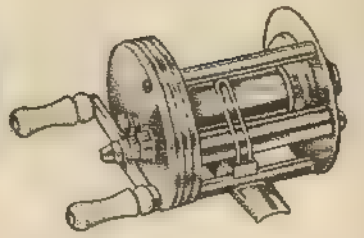
Ocean City No. 1500. Streamlined all metal level wind reel with improved anti-backlash control. Aluminum side plates. Self lubricating bearings. On-off click. Weight 7 4 oz. Retail 4.95

No. 16R115. Each.....2.91



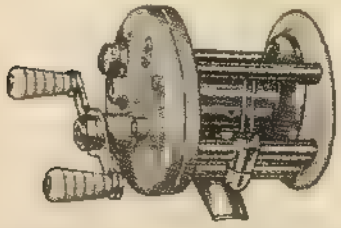
Ocean City No. 1600. All metal level wind reel. Ventilated side plates in forest green finish. Light weight spool with large arbor. Anti-backlash control, self-lubricating bearings. Click button. Weight 7 oz. Retail 5.95

No. 16R116. Each 3.50



Ocean City No. 1800. Level wind reel made of beautifully finished, heavily chrome plated brass. Light weight Zephalloy spool with large arbor. Anti-backlash control, self-lubricating bearings. On-off click. Weight 8 oz. Retail 8.95.

No. 16R118. Each.....4.67

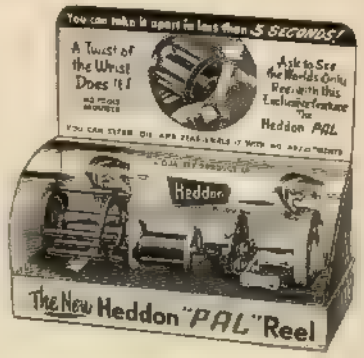


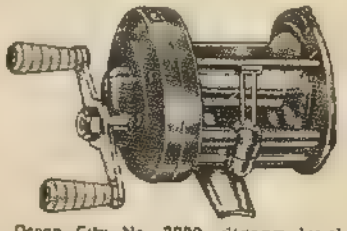
Ocean City No. 1950. Streamlined level wind reel made of light weight Zephalloy. Improved wheel type thumb and anti-backlash control. Strong rigid construction. On-off click. Large arbor Zephalloy spool. Self lubricating bearings. Weight 5 oz. Retail 12.9

No. 16R119. Each.....7.35

Heddon Pal P41. Light weight reel made of anodized aluminum. Spiral bronze gears, quadruple multiplying. Adjustable thumb drag. Featherweight steel with removable end ring for quick disassembly. Retail [illegible]

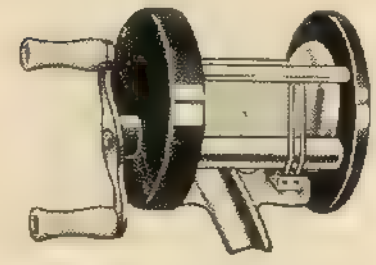
No. 16R11.
Each 8.09


You can take it apart in less than 5 SECONDS!
A Twist of the Wrist Does It!
Ask to See the World's Only Reel with this Exclusive feature "the Heddon PAL"
Heddon
The New Heddon "PAL" Reel



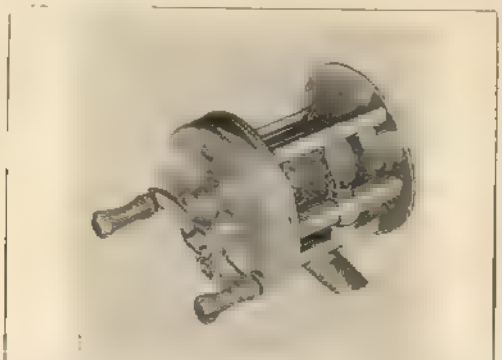
Ocean City No. 2000. Strong level wind reel made of light weight Zephalloy, self-lubricating bearings, end load drop-free wind Zephalloy spool. Smooth caster control. Anodized Forest green finish, heavy chrome plated trimmings. Adjustable drag. Weight 6 oz. Retail 25.00.

No. 16R106. Each.....14.70



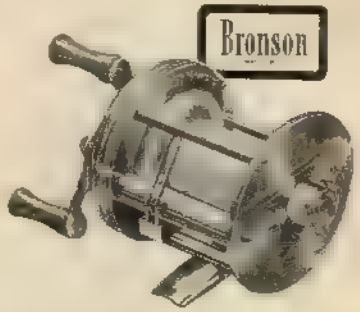
Bronson Altoona No. 4250. Sturdily constructed level wind reel recommended for the beginner or general utility use. Bakelite end plates, nickel plated metal parts, three piece take-down construction, 100-yard capacity. Equipped with snap-on plastic arbor. Weight 7 oz. Retail 2.95

No. 16R9. Each. 1.74



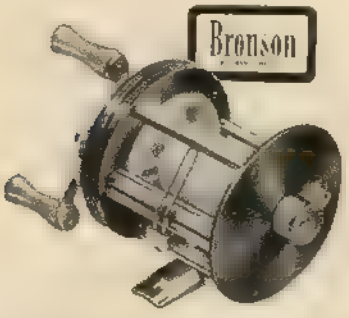
Martin No. 10. Light weight reel featuring fly-weight spool to eliminate backlash. All parts corrosion resistant. Matched gears. Level gears. Oilite self-lubricating ball bearings. End plates and handles polished and oxidized. Quick take down without tools. Weight 5½ oz. Retail [illegible]

No. 16R79. Each.....7.35



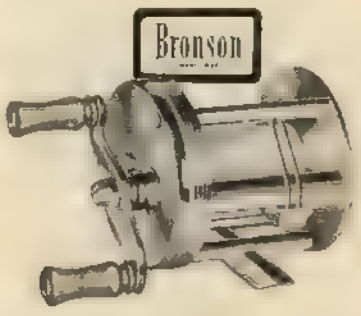
Bronson Mercury No. 2550. Beautifully chrome plated, level wind reel with embossed head cap and tail plate. Light weight aluminum spool with snap-on arbor. Duo-pawl with two spiral and two spur gears. Bronson adjustable drag eliminates backlash. Weight 8 oz. Retail 8.95

No. 16R14. Each.....4.09



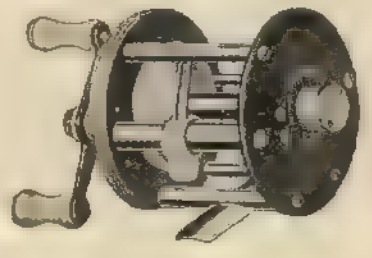
Bronson Green Hornet No. 2200. Light weight reel with geared anodized drum, head cap and tail plate. Light weight aluminum spool with snap-on plastic arbor. Equipped with adjustable drag bushing. Bronson duo pawl. Weight 7½ oz. Retail 7.95

No. 16R10. Each.....3.50



Bronson Lashless No. 1700. Precision built balanced reel equipped with Drag Tension bearing, spiral cut for regulating speeds and Bronson duo pawl. Non backlash model. Snap-on plastic arbor. Weight 9¾ oz. Retail 7.95

No. 16R16. Each.....4.67

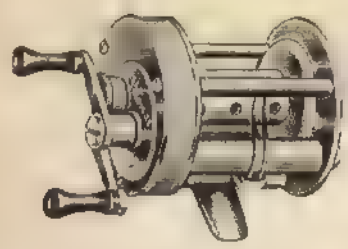


J. A. Coxe No. 95-C. Light weight reel designed especially for outside casters. Special gearing for smooth bearing and adjustable to any weight lure. Snap-on plastic arbor. Anodized aluminum head plates. Weight 4½ oz. Retail 9.95

No. 16R15. Each.....5.73

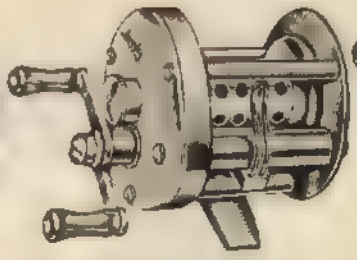
LANGLEY - J. A. COXE
SOUTH BEND

BAIT CASTING REELS



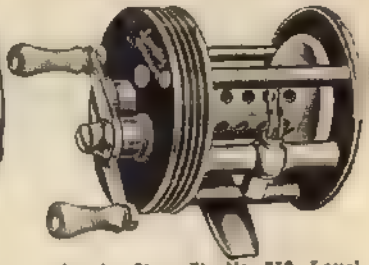
Langley Reel Cast No. 500. Standard size level wind casting reel with shell shape housing in various metallic finish. Simplified gear system with anti-inertia spool. Weight 5 oz Retail 5.95

No. 16R43. Each 3.50



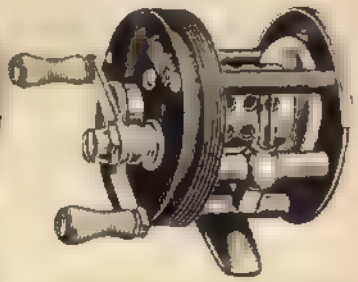
Langley Castrite No. 389. Standard size level wind reel featuring anti-inertia spool, spool control cap, smooth operating gear mechanism and extreme light weight. Grey and black finish with polished trim Weight 5 oz Retail 7.75

No. 16R47 Each .. 4.56



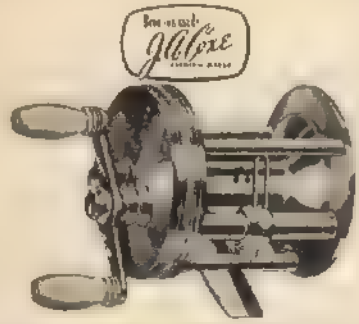
Langley Streamlite No. 310. Level wind reel, standard size with feather weight anti-inertia spool Handsome black alumilite finish with polished chrome trim and palm rest on end plate. Weight 5 oz Retail 12.50.

No. 16R48. Each 7.35



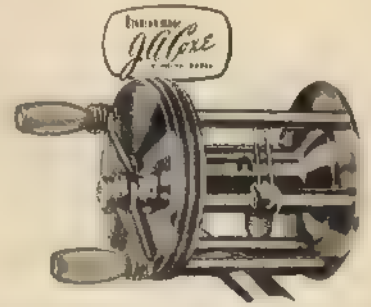
Langley Lure Cast No. 330. Light weight narrow spool level wind reel for light lines and lures Polished maroon alumilite finish with polished chrome trimmings on the end plate. Weight 4½ oz. Retail 10

No. 16R49 Each 8.82



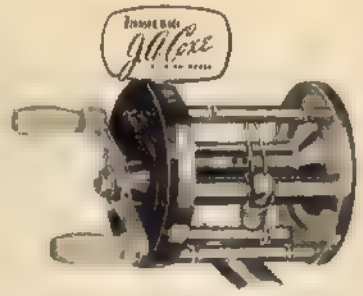
J. A. Coxe Model 60C Made of high grade brass throughout and chromium plated Has feather weight aluminum spool, smooth acting level wind mechanism, ivory celluloid handle grips, adjustable click quadruple multiplying with 100 yard line capacity Weight 8 oz. Retail 11.00.

No. 16R17. Each 6.46



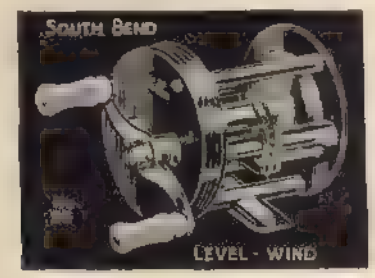
J. A. Coxe Model 10-C. Reel constructed of high grade brass beautifully chrome plated. Incorporates the Coxe cross-bolt construction, dirt-free level wind mechanism, featherweight spool and open frame. Time-saver feature, balanced gear quadruple multiplying Weight 5 oz. Retail 9.50

No. 16R18. Each 9.70



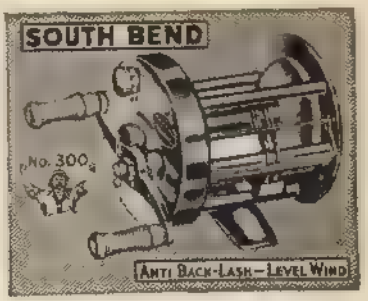
J. A. Coxe Coronet No. 25-C Only casting reel with automatic free spool. All aluminum head ring, cross-grained buckskin Coxe cross bolt permits quick take down 3 ratio multiplying 100 yard capacity ebonol or bronze gears and bearings throughout New light weight aluminum spool Retail 33.50

No. 16R19. Each .19.40



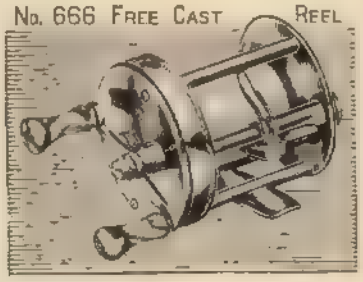
South Bend No. 25. Level wind reel with 3 piece take down construction Rugged and smooth running Cycle finished aluminum alloy frame and end plates Retail 6.00

No. 16R40. Each 3.53



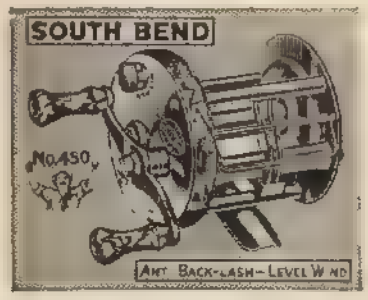
South Bend No. 300 Level-Wind Anti-Back-Lash Reel. Wood cased level wind reel for the beginner. Three piece take down, nickel plated frame, hard brass bearings and bushings Smooth working multiplying gears Weight 7 oz. Retail 7.00.

No. 16R45. Each 4.12



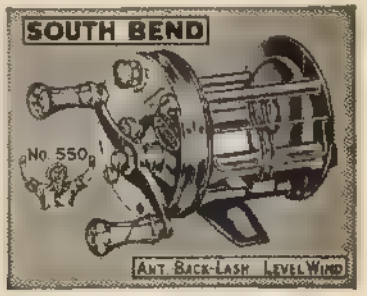
South Bend No. 666 Free Cast Reel Level wind reel with variable spool control to prevent backlash 3-piece take down construction chrome plated ends full steel frame Spool and end plate multiplying gears Steel shaft with phosphor bronze bushings Each in plastic case box Retail 10.00

No. 16R41. Each 5.88



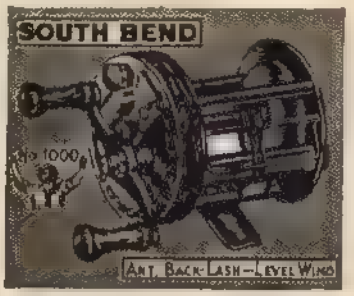
South Bend No. 450 Level-Wind Anti-Back-Lash Reel. Extremely rugged reel with brown onyx head and end plates Cast aluminum frame Chromium plated frame jeweled spool shaft Phosphor bronze bearings and bushings three piece take-down construction Weight 7½ oz. Retail 10.00.

No. 16R37. Each 5.88



South Bend No. 550 Level-Wind Anti-Back-Lash Reel. Reel has an attractive head cap, light weight nickel silver anti inertia Dirt carriage pawl and other oil tight parts, bronze bearings, jeweled caps, three-piece take-down. Weight 8½ oz. Retail 11.50.

No. 16R70. Each 6.76

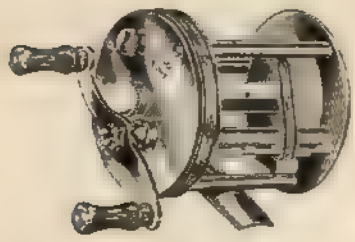


South Bend No. 1000. Level wind anti-back-lash reel with three piece take down construction Aviator plastic handle cap ring; chrome plated frame; phosphor bronze bearings and bushings, spiral cut quadruple multiplying gears Retail 15.00

No. 16R42. Each 8.82

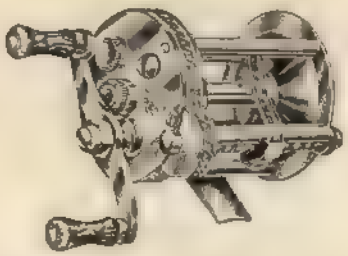
BAIT CASTING REELS

Shakespeare



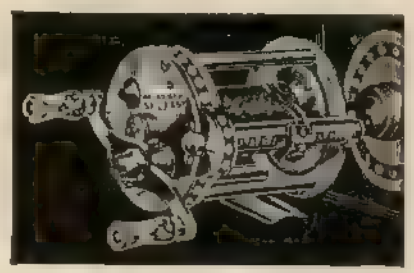
Pflueger Trump No. 1943. A reel famous for dependable service. Corrosion resistant level-wind; tension oil cups to permit easy lubrication; extra heavy chromium plating throughout. Retail 5.75.

No. 16R21. Each 3.72



Pflueger Akron No. 1893. A level-wind, anti-backlash, quadruple multiplying reel. Tension oil cups set with jewels, bronze bearings; adjustable click. Extra wide line guard; easily detached level-wind assembly. Retail 9.00.

No. 16R44. Each 6.18

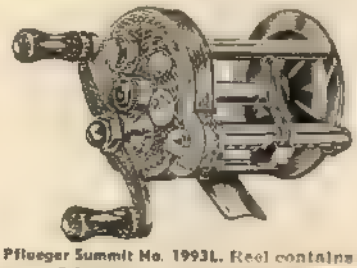


Pflueger Skilcast No. 1953. Reel features the Mechanical Thumber, that automatically thumbs the spool. Light weight aluminum spool, with extra cork arbor; quadruple multiplying spiral cut gears, chromium finish. Retail 10.50.

No. 16R22. Each 6.81

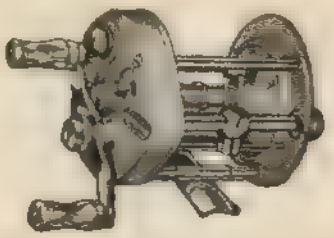
Pflueger Nobby No. 1963. A level-wind, quadruple multiplying reel, with jeweled oil cups, bronze bearings, spiral cut bronze gears, and tool steel pinion. Indicator regulating anti-backlash device contained within the reel. Finished in satin-nickelum; aluminum spool. Weight 5¾ oz. Retail 11.00.

No. 16R67. Each 7.20



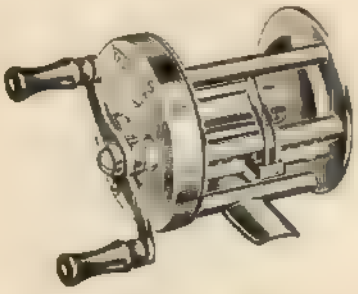
Pflueger Summit No. 1993L. Reel contains the famous Pflueger anti-backlash mechanism, with indicator button to give positive control. Extra wide phosphor bronze line guide; tension cups with inset jewels; bronze gear and bearings, heavily chromium plated; aluminum spool. Retail 13.50.

No. 16R62. Each 8.82



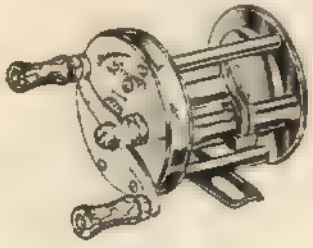
Pflueger Supreme No. 1573. The Aristocrat of fishing reels—light in weight yet rugged in construction. Level-wind; anti-backlash regulator; quadruple multiplying. Finished in satin nickelum. Fine leather bag, reel oil, gear grease, wrench packed with each reel. Retail 35.00.

No. 16R39. Each 22.88



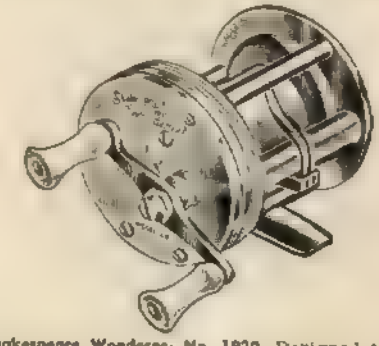
Shakespeare True Blue No. 1956. Reel is made of chrome plated brass with circle finish. Four gear train, with drive gears mounted on rigid bridge construction. Three unit takedown, chrome plated level wind. Weight: 7.9 oz. Retail 6.60.

No. 16R29. Each 3.84



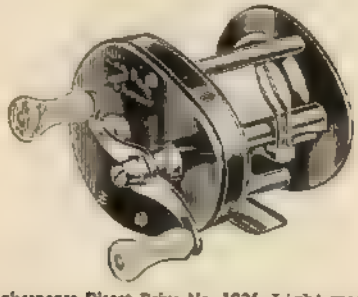
Shakespeare Triumph No. 1958. Reel has attractive plastic head ring, with matching handles, adjustable tail drag; replaceable spool bearings of phosphor bronze. Made of chrome plated, circle finished brass. Weight: 7.7 oz. Retail 7.70.

No. 16R31. Each 4.53



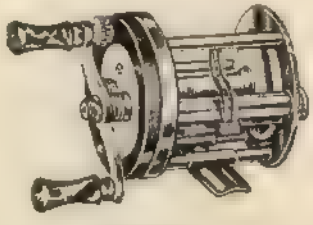
Shakespeare Wonderex No. 1920. Designed to reduce backlash to a minimum, the Wonderex is ideal for the beginner or the occasional fisherman. Made of nickeled brass, with circle finished chrome plate. Gear ratio: 4 to 1. Weight, 8.1 oz. Retail 11.00.

No. 16R28. Each 6.47



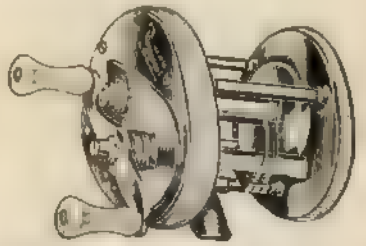
Shakespeare Direct Drive No. 1926. Light weight reel with forest green anodized aluminum alloy frame with tough nylon gears. Automatic thumb tail spool cap casting drag; snap on plastic arbor. Weight 5½ oz. Retail 12.00.

No. 16R34. Each 7.06



Shakespeare Marhoff No. 1964. A level-wind reel with green anodized alumium head plate. Nickel silver frame; jeweled end bearings set in bronze bushings; "automatic thumb" casting drag; plastic arbor. Weight: 8 oz. Retail 14.00.

No. 16R35. Each 9.40



Shakespeare President No. 1970. Streamlined tear-drop design reel with stainless steel used on all exposed parts. Precision made with carboloy spool pivot bushings, nylon gears and machine parts. Weight 8½ oz. Retail 33.50.

No. 16R36. Each 19.70

Hallmark

★ SHOCK-PROTECTED
★ ANTI-MAGNETIC
★ GENUINE RUBY JEWELS
★ STYLED WITH METAL BRACELETS
★ DUST-PROTECTED
★ PACKED IN GIFT BOXES
★ FULLY GUARANTEED

No. 1W138 each.....$46.65
Smart, modern 14K yellow gold dust-protected case with matching gold-filled combination basket-weave expansion bracelet. Raised figure dial, high domed crystal 17 Jewel Hallmark shock-protected movement assures accuracy.
Suggested Retail.....$95.00

No. 1W139 each.....$31.86
Water-Repellent
Trouble free man's watch with yellow top dust-protected case, Non-corrosive back. Gold-filled combination expansion bracelet. Radium figure dial and hands, raised crystal. 17 Jewel Hallmark shock-protected mvt.
Suggested Retail.....$68.00

No. 1W140 each.....$29.50
Attractive 10K yellow gold-filled dust-protected case with matching gold-filled expansion bracelet. Easy to read raised figure dial covered by domed crystal. 17 Jewel Hallmark shock-protected movement for absolute accuracy, faithful service and long life.
Suggested Retail.....$57.50

No. 1W141 each.....$26.75
Distinctively masculine dust-protected 10K yellow rolled gold plate case with a non-corrosive stainless steel back. Matching gold-filled basket weave expansion type bracelet. Sweep second hand for utility and domed crystal. 17 Jewel Hallmark shock-protected movement assures faithful, accurate service.
Suggested Retail.....$55.00

No. 1W142 each.....$24.65
10K yellow rolled gold plate dust-protected case. Non-corrosive back. Gold-filled expansion bracelet. 17 Jewel Hallmark shock-protected movement.
Suggested Retail.....$50.00

No. 1W143 each.....$18.86
Same as above 7 Jewel Hallmark movement.
Suggested Retail..... $35.00

No. 1W144 each.....$24.65
Yellow 10K rolled gold plate case. Matching exp. bracelet. 17 J. Hallmark shock-protected movement.
Suggested Retail.....$50.00

No. 1W145 each.....$18.86
Same as above. 7 Jewel Hallmark movement.
Suggested Retail.....$35.00

"Prince Hallmark"
No. 1W137 each..... .$49.05
Subtle elegance expressed in a 14K yellow gold dust-protected case with matching gold-filled tapered expansion bracelet. Easy to read raised figure dial has a high domed crystal 17 Jewel Hallmark shock-protected movement.
Suggested Retail.....$100.00

No. 1W146 each..... $26.75
Water-Repellent
Attractive, practical watch for men. Dust-protected stainless steel case with matching steel expansion bracelet. Radium figures dial and hands Sweep second hand 17 Jewel Hallmark shock-protected movement.
Suggested Retail.....$55.00

No. 1W147 each..... $35.91
14K yellow gold pocket watch. Raised figure dial. 17 J.L. Hallmark shock-protected movement.
Suggested Retail.....$115.00

No. 1W148 each..... $28.47
Same as above. 10K yellow gold-filled case.
Suggested Retail.....$55.00

THE SELLING PRICES LISTED ON THIS PAGE ARE NOT SUBJECT TO 2% DISCOUNT.

No. 1W118 each **$31.56**
Smart 14K yellow gold dust-protected case, matching gold-filled expansion bracelet. Domed crystal, raised figure dial. 17 Jewel Hallmark shock-protected movement.
Suggested Retail **$65.00**

No. 1W119 each **$31.56**
Same as above in 14K white gold case.
Suggested Retail **$65.00**

No. 1W120 each **$31.56**
Modern 14K white gold dust-protected case, matching gold-filled expansion type bracelet. Domed crystal, raised figure dial. 17 Jewel Hallmark shock-protected movement.
Suggested Retail **$65.00**

No. 1W121 each **$31.56**
Same as above. 14K yellow gold case.
Suggested Retail **$65.00**

No. 1W122 each **$35.28**
Two diamonds set in 10K rolled gold plate dust-protected case. Non-corrosive back. Gold-filled combination expansion bracelet. 17 Jewel Hallmark shock-protected movement.
Suggested Retail **$70.00**

No. 1W123 each **$35.28**
Same as above. 10K white rolled gold case.
Suggested Retail **$70.00**

No. 1W124 each **$24.65**
Ever popular cushion shape 10K rolled gold plate dust-protected case. Non-corrosive back. Gold-filled link bracelet. 17 Jewel Hallmark shock-protected movement.
Suggested Retail **$50.00**

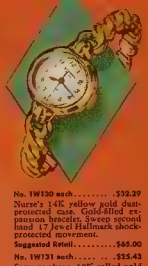
No. 1W125 each **$18.52**
Same as above. 7 Jewel Hallmark movement.
Suggested Retail **$35.00**

No. 1W126 each **$24.65**
Square 10K yellow rolled gold plate dust-protected case. Non-corrosive back. Gold-filled chain bracelet. 17 Jewel Hallmark shock-protected movement.
Suggested Retail **$50.00**

No. 1W127 each **$18.52**
Same as above. 7 Jewel Hallmark movement.
Suggested Retail **$35.00**

No. 1W128 each **$23.18**
Petite 10K yellow rolled gold plate case. Non-corrosive back. Gold-filled expansion bracelet. 17 Jewel Hallmark shock-protected movement.
Suggested Retail **$45.00**

No. 1W129 each **$17.79**
Same as above. 7 Jewel Hallmark movement.
Suggested Retail **$30.00**



No. 1W130 each **$32.29**
Nurse's 14K yellow gold dust-protected case. Gold-filled expansion bracelet. Sweep second hand. 17 Jewel Hallmark shock-protected movement.
Suggested Retail **$65.00**

No. 1W131 each **$25.43**
Same as above. 10K rolled gold plate case. Non-corrosive back.
Suggested Retail **$50.00**

No. 1W132 each **$24.65**
10K yellow rolled gold plate dust-protected case. Gold-filled expansion bracelet. Raised figure dial, domed crystal. 17 Jewel Hallmark shock-protected mvt.
Suggested Retail **$50.00**

No. 1W133 each **$24.65**
Same as above. 10K white rolled gold plate case.
Suggested Retail **$50.00**

No. 1W134 each **$36.75**
Automatic Self-Winding
All stainless steel dust-protected, water-repellent case. Matching steel basket-weave expansion type bracelet. Radium figures and hands. 17 jewel Hallmark shock-protected movement.
Suggested Retail **$71.50**

No. 1W135 each **$38.57**
Automatic Self-Winding
10K yellow gold-filled dust-protected case with non-corrosive back. Gold-filled expansion bracelet. Raised figure dial and dependably accurate 17 Jewel Hallmark shock-protected mvt.
Suggested Retail **$75.00**

No. 1W136 each **$53.90**
Self-Winding Calendar Watch
Masculine 10K yellow gold-filled dust-protected case. Gold-filled expansion bracelet. Raised figure dial indicates day, month, and date. 17 Jewel Hallmark shock-protected movement.
Suggested Retail **$105.00**

Hallmark's reputation for superb watches is built on real merit. Comparison proves that only a few of the finest watches in the world can equal the spill-second accuracy of a Hallmark watch. Famous for fine quality since 1906, Hallmark today incorporates the most advanced techniques of the watchmaker's science, the most skilled degree of true craftsmanship. Thousands of Hallmark owners know the uniquely beautiful styling of Hallmark watches as well as the years of trouble-free, dependable service these choice timepieces give.

All watches shown on these pages have Hallmark shock-protected movements with the internationally famous incabloc system for dependable accuracy. In addition, these fine watches are styled with such nationally advertised metal bracelets as J. B. Gomez, Bretton, and Forstner.

All Hallmark watches are made with standardized, interchangeable parts and packed in beautiful presentation boxes.

Watches illustrated are ⅞ of actual size.

Suggested retail prices include Federal Excise Tax.

THE SELLING PRICES LISTED ON THIS PAGE ARE NOT SUBJECT TO 2% DISCOUNT.

Hallmark

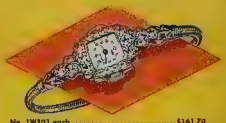
watches of lasting dependability

SUPERBLY STYLED
FOR THE LADY OR GENTLEMAN
OF CULTURED REFINEMENT

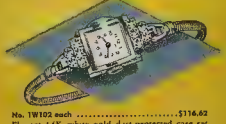
- SHOCK-PROTECTED
- FULLY GUARANTEED
- DUST-PROTECTED
- ANTI-MAGNETIC
- PACKED IN GIFT BOXES
- GENUINE RUBY JEWELS
- STYLED WITH METAL BRACELETS

(Diamonds enlarged to show details)

"Princess Hallmark"
No. 1W100 each..... .....$377.30
Loveliness for a queen, this watch has a 14K white gold dust-protected case set with 32 brilliant diamonds. 14K white gold bracelet has safety chain attached. Domed crystal over raised figure dial. 17 Jewel Hallmark shock-protected movement.
Suggested Retail..... ..... $750.00



No. 1W101 each.....$161.70
Fabulously beautiful. Twenty diamonds set in a 14K white gold dust-protected case with white gold-filled bracelet and safety chain. Domed crystal over raised figure dial. 17 Jewel Hallmark shock-protected movement.
Suggested Retail.....$335.00

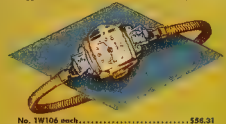


No. 1W102 each $116.62
Elegant 14K white gold dust-protected case set with 10 diamonds. Gold-filled single strand snake bracelet with safety chain. Raised figure dial, domed crystal. 17 Jewel Hallmark shock-protected movement.
Suggested Retail.....$250.00

No. 1W103 each..... .....$88.20
Six diamonds sparkle in this 14K white gold dust-protected case. Matching 2-strand gold-filled snake bracelet with safety chain. Domed crystal, raised figure dial for easy reading. 17 Jewel Hallmark shock-protected movement.
Suggested Retail... ....$185.00

No. 1W104 each..... ...$58.31
14K white gold dust-protected case set with 2 diamonds. Matching single strand gold-filled snake bracelet with safety chain. Raised figure dial, domed crystal. 17 Jewel Hallmark shock-protected movement.
Suggested Retail..... ....$125.00

No. 1W105 each. $58.31
Same as above with 14K yellow gold case
Suggested Retail.....$125.00



No. 1W106 each.....$56.31
Two diamonds set in 14K yellow gold case. Single strand gold-filled snake bracelet with safety chain. Raised figure dial, domed crystal. 17 Jewel Hallmark shock-protected movement.
Suggested Retail.. .....$125.00

No 1W107 each.. ....$58.31
Same as above with 14K white gold case.
Suggested Retail..... . . . . $125.00

THE SELLING PRICES LISTED ON THIS PAGE ARE NOT SUBJECT TO 2% DISCOUNT.

* ANTI-MAGNETIC
* FULLY GUARANTEED
* GENUINE RUBY JEWELS
* NATIONALLY ADVERTISED
* DUST-PROTECTED
* STYLED WITH METAL BRACELETS
* SHOCK-PROTECTED

Hallmark

Shock-resistant and water-repellent features of Hallmark watches are guaranteed to conform with the specifications issued by the Federal Trade Commission. Printed guarantee and instructions covering Hallmark watches are inclosed with each purchase.

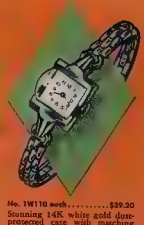
GUARANTEE

Every Hallmark Watch is unconditionally guaranteed to be made of the finest materials with the most precise craftsmanship. It is further guaranteed to be free of defects of manufacture when it leaves the factory. If a Hallmark Watch proves defective in workmanship or material within one year from date of purchase the watch will be repaired or exchanged no charge.

Hallmark Watch Corp.

No. 1W108 each.....$43.61
"Hallmark Countess"
Two star-bright diamonds set in a 14K yellow gold dust-protected case. Matching gold-filled chain bracelet. 17 Jewel Hallmark shock-protected movement.
Suggested Retail.....$90.00

No. 1W109 each.....$43.61
Same as above in 14K white gold case.
Suggested Retail.....$90.00

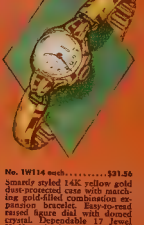


No. 1W110 each.....$39.20
Stunning 14K white gold dust-protected case with matching gold-filled link bracelet. Domed crystal over raised figure dial. 17 Jewel Hallmark shock-protected movement.
Suggested Retail.....$80.00

No. 1W111 each.....$39.20
Same as above in 14K yellow gold case.
Suggested Retail.....$80.00

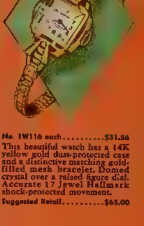
No. 1W112 each.....$39.20
14K yellow gold dust-protected case with matching gold-filled expansion bracelet. Domed crystal, raised figure dial. Accurate 17 Jewel Hallmark shock-protected movement.
Suggested Retail.....$80.00

No. 1W113 each.....$39.20
Same as above in 14K white gold case.
Suggested Retail.....$80.00



No. 1W114 each.....$31.36
Smartly styled 14K yellow gold dust-protected case with matching gold-filled combination expansion bracelet. Easy-to-read raised figure dial with domed crystal. Dependable 17 Jewel Hallmark shock-protected movement.
Suggested Retail.....$65.00

No. 1W115 each.....$39.20
Simple, neat, lovely . . . this watch has a 14K yellow gold dust-protected case with matching highly styled gold-filled 2-strand snake bracelet. Domed crystal over raised figure dial. 17 Jewel Hallmark shock-protected movement.
Suggested Retail.....$80.00



No. 1W116 each.....$31.36
This beautiful watch has a 14K yellow gold dust-protected case and a distinctive matching gold-filled mesh bracelet. Domed crystal over a raised figure dial. Accurate 17 Jewel Hallmark shock-protected movement.
Suggested Retail.....$65.00

No. 1W117 each.....$31.36
Breathlessly lovely, this 14K yellow gold dust-protected case is matched by a single strand gold-filled snake bracelet. Raised figure dial, domed crystal. Accuracy assured by 17 Jewel Hallmarkshock-protectedmovement.
Suggested Retail.....$65.00

THE SELLING PRICES LISTED ON THIS PAGE ARE NOT SUBJECT TO 2% DISCOUNT.

Hallmark

- ★ SHOCK-PROTECTED
- ★ ANTI-MAGNETIC
- ★ GENUINE RUBY JEWELS
- ★ STYLED WITH METAL BRACELETS
- ★ DUST-PROTECTED
- ★ PACKED IN GIFT BOXES
- ★ FULLY GUARANTEED

Smart, modern 14K yellow gold dust protected case with matching gold-filled 1 combination basket weave expansion bracelet. Raised figure dial under domed crystal. 17 Jewel Hallmark shock-protected movement assures accuracy.

No. 138HK [illegible]
Dlr's Ea. [illegible] **46.65**

Water-Repellent

Treasure for man's watch with yellow top dust protected case. Non-corrosive back. Gold filled combination expansion bracelet. Radium figure dial and hands, raised crystal. 17 Jewel Hallmark shock protected mvt.

No. 139HK [illegible]
Dlr's Ea. [illegible] **31.56**

"Prince Hallmark"

Subtle elegance expressed in a 14K yellow gold dust-protected case with matching gold filled tapered expansion bracelet. Easy to read raised figure dial has a high domed crystal. 17 Jewel Hallmark shock-protected movement.

No. 137HK [illegible]
Dlr's Ea. [illegible] **49.05**

All items on this page are subject to Federal Excise Tax

Attractive 10K yellow gold-filled dust protected case with matching gold filled expansion bracelet. Easy to read raised figure dial covered by domed crystal. 17 Jewel Hallmark shock protected movement for absolute accuracy, faithful service a lifetime.

No. 140HK [illegible]
Dlr's Ea. [illegible] **29.50**

Distinctively masculine dust-protected 10K yellow rolled gold plate case with a non-corrosive stainless steel back. Matching gold filled basket weave expansion type bracelet. Sweep second hand for utility and domed crystal. 17 Jewel Hallmark shock-protected movement assures faithful, accurate service.

No. 141HK [illegible]
Dlr's Ea. [illegible] **26.75**

10K yellow rolled gold plate dust protected case. Non-corrosive back. Gold filled expansion bracelet. 7 Jewel Hallmark shock protected movement.

No. 142HK [illegible]
Dlr's Ea. [illegible] **24.65**

Same as above. 7 Jewel Hallmark movement.

No. 143HK [illegible]
Dlr's Ea. [illegible] **18.86**

Yellow 14K rolled gold plate case. Matching gap bracelet. 17 H. Hallmark shock protected movement.

No. 144HK [illegible]
Dlr's Ea. [illegible] **24.65**

Same as above. 7 Jewel Hallmark movement.

No. 145HK [illegible]
Dlr's Ea. [illegible] **18.86**

Water-Repellent

Attractive, practical watch for men. Dust protected stainless steel case with matching steel expansion bracelet. Radium figure dial and hands. Sweep second hand. 17 Jewel Hallmark shock protected movement.

No. 146HK [illegible]
Dlr's Ea. [illegible] **26.75**

14K yellow gold pocket watch. Raised figure dial. 17 H. Hallmark shock-protected movement.

No. 147HK [illegible]
Dlr's Ea. [illegible] **55.91**

Same as above. 10K yellow gold-filled case.

No. 148HK [illegible]
Dlr's Ea. [illegible] **28.47**

Hallmark

watches of lasting dependability

SUPERBLY STYLED
FOR THE LADY OR GENTLEMAN
OF CULTURED REFINEMENT

- SHOCK-PROTECTED
- FULLY GUARANTEED
- DUST-PROTECTED
- ANTI-MAGNETIC
- PACKED IN GIFT BOXES
- GENUINE RUBY JEWELS
- STYLED WITH METAL BRACELETS

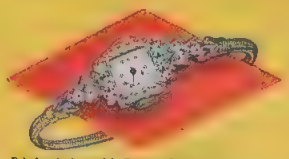
(Diamonds enlarged to show details)

"Princess Hallmark"

Loveliness for a queen, this watch has a 14K white gold dust-protected case set with 32 brilliant diamonds. 14K white gold bracelet has safety chain attached. Domed crystal over raised figure dial. 17 Jewel Hallmark shock-protected movement.

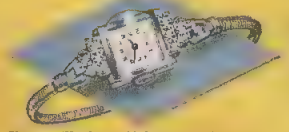
No. 100HK Retail $750.00
Dir's. Ea. ...$365.00 Less 2% **377.30**

All Items on this page are subject to Federal Excise Tax.



Fabulously beautiful. Twenty diamonds set in a 14K white gold dust protected case with white gold filled bracelet and safety chain. Domed crystal over raised figure dial. 17 Jewel Hallmark shock-protected movement.

No. 101HK . . . . . Retail $335.00
Dir's. Ea... . . . . $165.00 Less 2% **161.70**

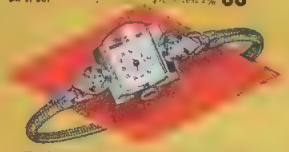


Elegant 14K white gold dust-protected case set with 10 diamonds. Gold-filled single strand snake bracelet with safety chain. Raised figure dial, domed crystal. 17 Jewel Hallmark shock-protected movement.

No. 102HK . . . . . Retail $240.00
Dir's. Ea. . . . . $118.40 Less 2% **116.62**

Six diamonds sparkle in this 14K white gold dust-protected case. Matching 2-strand gold-filled snake bracelet with safety chain. Domed crystal, raised figure dial for easy reading. 17 Jewel Hallmark shock-protected movement.

No. 103HK . . . . . Retail $185.00
Dir's. Ea. . . . . $90.00 Less 2% **88.20**

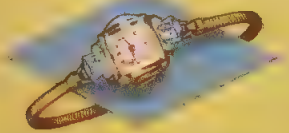


14K white gold dust-protected case set with 2 diamonds. Matching single strand gold-filled snake bracelet with safety chain. Raised figure dial, domed crystal. 17 Jewel Hallmark shock-protected movement.

No. 104HK . . . . . Retail $ 75.00
Dir's. Ea . . . . . $59.50 Less 2% **58.31**

Same as above with 14K yellow gold case.

No. 105HK . . . . . Retail $ 75.00
Dir's Ea. . . . . $59.50 Less 2% **58.31**



Two diamonds set in 14K yellow gold case. Single strand gold-filled snake bracelet with safety chain. Raised figure dial, domed crystal. 17 Jewel Hallmark shock-protected movement.

No. 106HK . . . . . Retail $125.00
Dir's. Ea. . . . . $59.50 Less 2% **58.31**

Same as above with 14K white gold case

No. 107HK . . . . . Retail $126.00
Dir's. Ea. . . . . $59.50 Less 2% **58.31**

* ANTI-MAGNETIC
* FULLY GUARANTEED
* GENUINE RUBY JEWELS
* NATIONALLY ADVERTISED
* DUST-PROTECTED
* PACKED IN GIFT BOXES
* SHOCK-PROTECTED
* STYLED WITH METAL BRACELETS

Hallmark

Shock-resistant and water-repellent features of Hallmark watches are guaranteed to conform with the specifications issued by the Federal Trade Commission. Printed guarantee and instructions covering Hallmark watches are inclosed with each purchase.

GUARANTEE

Every Hallmark Watch is unconditionally guaranteed to be made of the finest materials with the most precise crafts manship. It is further guaranteed to be free of defects of manufacture when it leaves the factory. If a Hallmark Watch proves defective in workmanship or material within one year from date of purchase the watch will be repaired or exchanged no charge.

Hallmark Watch Corp.

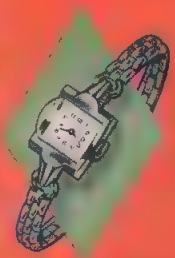
"Hallmark Countess"

Two star-bright diamonds set in a 14K yellow gold dust-protected case. Machine gold-filled chain bracelet. 17 Jewel Hallmark shock-protected movement.

No. 108HK Retail $90.00
Dir's. Ea. ... $44.10 less 2% **43.61**

Same as above in 14K white gold case.

No. 109HK Retail $90.00
Dir's. Ea. ... $44.10 less 2% **43.61**



Stunning 14K white gold dust-protected case with matching gold-filled link bracelet. Domed crystal over raised figure dial. 17 Jewel Hallmark shock-protected movement.

No. 110HK Retail $80.00
Dir's. Ea. $40.00 less 2% **39.20**

Same as above in 14K yellow gold case.

No. 111HK Retail $80.00
Dir's. Ea. $40.00 less 2% **39.20**

14K yellow gold dust-protected case with matching gold-filled expansion bracelet. Domed crystal, raised figure dial. Accurate 17 Jewel Hallmark shock-protected movement.

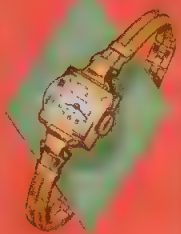
No. 112HK Retail $80.00
Dir's. Ea. $40.00 less 2% **39.20**

Same as above in 14K white gold case.

No. 113HK Retail $80.00
Dir's. Ea. $40.00 less 2% **39.20**

Smartly styled 14K yellow gold dust-protected case with matching gold-filled combination expansion bracelet. Easy to read raised figure dial with domed crystal. Dependable 17 Jewel Hallmark shock-protected movement.

No. 114HK Retail $65.00
Dir's. Ea. $32.20 less 2% **31.56**

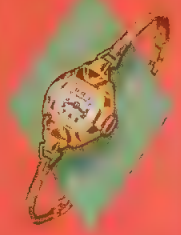


Simple, neat, lovely . . . this watch has a 14K yellow gold dust-protected case with matching highly styled gold filled 2-strand snake bracelet. Domed crystal over raised figure dial. 17 Jewel Hallmark shock-protected movement.

No. 115HK Retail $80.00
Dir's. Ea. $40.00 less 2% **39.20**

This beautiful watch has a 14K yellow gold dust protected case and a distinctive matching, gold-filled mesh bracelet. Domed crystal over a raised figure dial. Accurate 17 Jewel Hallmark shock protected movement.

No. 116HK Retail $65.00
Dir's. Ea. $32.20 less 2% **31.56**



Breathlessly lovely, this 14K yellow gold dust-protected case is matched by a single strand gold-filled snake bracelet. Raised figure dial, domed crystal. Accuracy assured by 17 Jewel Hallmarkshock protectedmovement.

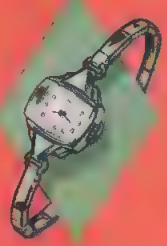
No. 117HK Retail $65.00
Dir's. Ea. $32.20 less 2% **31.56**

Smart 14K yellow gold dust-protected case, matching gold-filled expansion bracelet. Domed crystal, raised figure dial. 17 Jewel Hallmark shock protected movement

No. 118HK Retail $65.00
Dlr's. Ea. $32.20 less 2% **31.56**

Same as above in 14K white gold case

No. 119HK Retail $65.00
Dlr's. Ea. $32.20 less 2% **31.56**



Modern 14K white gold dust-protected case, matching gold-filled expansion type bracelet. Domed crystal, raised figure dial. 17 jewel Hallmark shock-protected movement

No. 120HK Retail $65.00
Dlr's. Ea. $32.20 less 2% **31.56**

Same as above. 14K yellow gold case.

No. 121HK Retail $65.00
Dlr's. Ea. $32.20 less 2% **31.56**

Two diamonds set in 10K rolled gold plate dust-protected case. Non corrosive back. Gold filled combination expansion bracelet. 17 Jewel Hallmark shock-protected movement

No. 122HK Retail $70.00
Dlr's. Ea. $36.00 less 2% **35.28**

Same as above. 10K white rolled gold case

No. 123HK Retail $70.00
Dlr's. Ea. $36.00 less 2% **35.28**

Ever popular cushion shape 10K rolled gold plate dust-protected case. Non-corrosive back. Gold-filled link bracelet. 17 Jewel Hallmark shock-protected movement

No. 124HK Retail $45.00
Dlr's. Ea. $23.15 less 2% **24.65**

Same as above. 7 Jewel Hallmark movement.

No. 125HK Retail $35.00
Dlr's. Ea. $18.00 less 2% **18.52**

Square 10K yellow rolled gold plate dust-protected case. Non-corrosive back. Gold-filled chain bracelet. 17 Jewel Hallmark shock-protected movement.

No. 126HK Retail $45.00
Dlr's. Ea. $23.15 less 2% **24.65**

Same as above. 7 Jewel Hallmark movement.

No. 127HK Retail $35.00
Dlr's. Ea. $18.00 less 2% **18.52**

Practical 10K yellow rolled gold plate case. Non-corrosive back. Gold filled expansion bracelet. 17 Jewel Hallmark shock-protected movement.

No. 128HK Retail $45.00
Dlr's. Ea. $23.15 less 2% **23.18**

Same as above. 7 Jewel Hallmark movement.

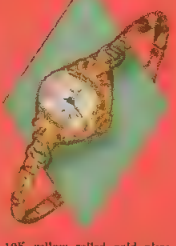
No. 129HK Retail $30.00
Dlr's. Ea. $15.45 less 2% **17.79**

Nurse's 14K yellow gold dust-protected case. Gold-filled expansion bracelet. Sweep second hand. 17 Jewel Hallmark shock-protected movement

No. 130HK Retail $45.00
Dlr's. Ea. $23.95 less 2% **32.29**

Same as above. 10K rolled gold plate case. Non corrosive back.

No. 131HK Retail $45.00
Dlr's. Ea. $23.95 less 2% **25.43**



10K yellow rolled gold plate dust protected case. Gold-filled expansion bracelet. Raised figure dial, domed crystal. 17 Jewel Hallmark shock protected mvt.

No. 132HK Retail $50.00
Dlr's. Ea. $25.75 less 2% **24.65**

Same as above. 10K white rolled gold plate case

No. 133HK Retail $50.00
Dlr's. Ea. $25.75 less 2% **24.65**

Automatic Self-Winding

All stainless steel dust protected, water repelle nt case. Matching steel basket weave expansion type bracelet. Radium figures and hands. 17 Jewel Hallmark shock-protected movement.

No. 134HK Retail $71.50
Dlr's Ea. $37.05 less 2% **36.75**

Automatic Self-Winding

10K yellow gold-filled dust protected case with non-corrosive back. Gold filled expansion bracelet. Raised figure dial indicates day month, and date. 17 Jewel Hallmark shock protected movement.

No. 135HK Retail $78.00
Dlr's Ea. $39.15 less 2% **38.37**

Self-Winding Calendar Watch

Masculine 10K yellow gold-filled dust protected case. Gold-filled expansion bracelet. Raised figure dial indicates day month, and date. 17 Jewel Hallmark shock protected movement.

No. 136HK Retail $55.00
Dlr's Ea. $55.00 less 2% **53.90**

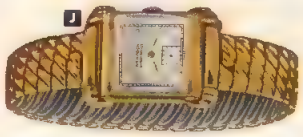
Hallmark's reputation for superb watches is built on real merit. Comparison proves that only a few of the finest watches in the world can equal the split-second accuracy of a Hallmark watch. Famous for fine quality since 1906, Hallmark today incorporates the most advanced techniques of the watchmaker's science, the most skilled degree of true craftsmanship. Thousands of Hallmark owners know the uniquely beautiful styling of Hallmark watches as well as the years of trouble-free, dependable service these choice timepieces give.

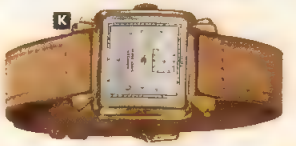
All watches shown on these pages have Hallmark shock-protected movements with the internationally famous incabloc system for dependable accuracy. In addition, these fine watches are styled with such nationally advertised metal bracelets as J B, Gemex, Bretten, and Forstner.

All Hallmark watches are made with standardized, interchangeable parts and packed in beautiful presentation boxes.

Watches illustrated are ⅞ of actual size.

Suggested retail prices include Federal Excise Tax.





HAMPDEN

Famed 17 Jewel Accuracy • Shock Resistant* • Dust Protected • Anti-Magnetic* • Gift Boxed

(A) Mid-Century Modern man's watch in 14K. yellow gold, mirror-polished. High visibility raised crystal, new barrel expansion bracelet, 10K yellow gold filled Shock-resistant* 17 Jewel Hampden movement.
Suggested Retail $90.00
No. 5133H Dealer's Each .Net **$48.90**

(A) Same as above, with 10K yellow gold filled case.
Suggested Retail $55.75
No. 5134H Dealer's Each . Net **$30.87**

(B) Smart and different the brand-new 14K. yellow gold, mirror-finished, Pyramid Case with stunning pyramid crystal Top grade alligator strap. Hampden 17 Jewel movement, guaranteed shock-resistant *
Suggested Retail $85.25
No. 5135H Dealer's Each . . Net **$47.68**

(C) The Hampden ALTOMATIC –it winds itself on your wrist. All stainless steel case; water-repellent, anti-magnetic*; luminous numbers and hands, sweep second hand; matching combination mesh and expansion bracelet. Famous 17 Jewel Hampden shock-resistant* movement
Suggested Retail $65.00
No. 5136H Dealer's Each . . . Net **$36.70**

(D) Distinctive square case, 10K yellow gold filled, with matching expansion bracelet. Raised crystal. Accurate 17 Jewel Hampden shock resistant* movement
Suggested Retail $55.75
No. 5137H Dealer's Each Net **$30.87**

(E) Popular circular style . 10K. yellow gold filled top stainless steel back . matching combination link and expansion bracelet. Famous 17 Jewel guaranteed shock resistant* Hampden movement
Suggested Retail $51.50
No. 5138H Dealer's Each Net **$28.81**

(F) Same as above, in 10K yellow rolled gold plate top, stainless steel back . . . standard 17 jewel Hampden movement. Pigskin strap.
Suggested Retail $37.50
No. 5139H Dealer's Each Net **$20.98**

(F) Handsome curved lines...10K. yellow gold filled top, stainless steel back . 10K gold filled expansion bracelet Shock resistant* 17 Jewel Hampden movement
Suggested Retail $48.95
No. 5140H Dealer's Each Net **$27.59**

(G) Masculine design 10K yellow gold filled top, Stainless steel back Sweep second hand, smart dome crystal Mesh and expansion bracelet, 10K gold filled Shock-resistant* accurate .7 Jewel Hampden movement.
Suggested Retail $54.75
No. 5141H Dealer's Each Net **$29.79**

(H) Rugged water-repellent,antimagnetic* all stainless steel watch, matching expansion bracelet, Sweep second hand; luminous numbers and hands. 17 Jewel Hampden movement, guaranteed shock-resistant*.
Suggested Retail $51.50
No. 5142H Dealer's Each Net **$28.83**

(J) Streamlined . . . 10K. yellow rolled gold plate top, stainless steel back . smart 10K gold filled expansion bracelet Gleaming dome crystal Incomparable 17 Jewel Hampden shock resistant* movement
Suggested Retail $44.75
No. 5143H Dealer's Each Net **$24.70**

(K) Attractively detailed case with fine 10K. yellow rolled gold plate top, stainless steel back, genuine pigskin strap. High raised crystal . . . famous 17 Jewel Hampden guaranteed shock-resistant* movement.
Suggested Retail $39 75
No. 5144H Dealer's Each . . . . Net **$21.61**

(L) Traditional fine 14K yellow gold pocket watch improved, extra thin, lightweight design. This is a favored presentation watch with the famous 17 Jewel Hampden movement, guaranteed for accuracy.
Suggested Retail $97 50
No. 5145H Dealer's Each Net **$54.34**

(L) Same as above, with 10K yellow gold filled case
Suggested Retail $48.95
No. 5146H Dealer's Each . . . . Net **$27.39**

(L) Same as above, 10K yellow rolled gold plate case
Suggested Retail $44.75
No. 5147H Dealer's Each Net **$24.63**

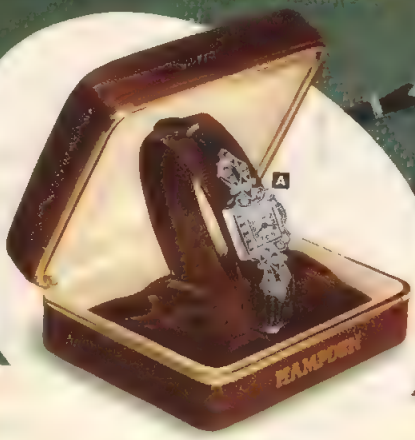
Guaranteed to conform with specifications issued by the Federal Trade Commission. Printed guarantee and specifications enclosed with each watch.

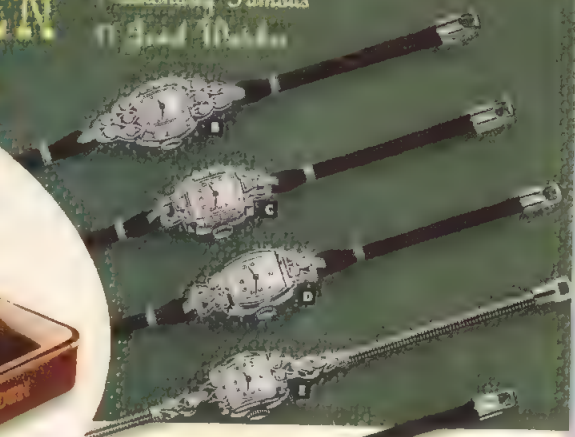
Suggested Retail Prices Do Not Include Fed. Excise Tax.

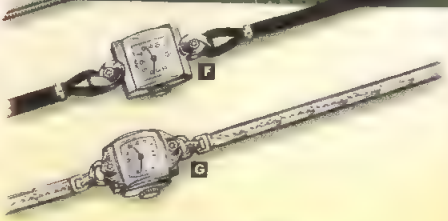
ALL PRICES NET—2% CASH DISCOUNT ALREADY DEDUCTED.

HAMPDEN

Nationally Famous
17 Jewel Watches







- Dust Protected
- Anti Magnetic
- Accurate . . . 17 Jeweled for maximum efficiency!
- Fully Guaranteed . . . by a written certificate!
- Precision Made . . . by new, modern techniques!
- Beautiful . . . finest taste in original designs!
- Gift Boxed . . . in a dramatic presentation box that can be used as a stunning jewel box!
- Proved dependable . . . by years of service!

Hampden parts are standard and interchangeable, available at most reliable jewelry and watch repair shops. Watches are illustrated ⅞ of actual size.

SUGGESTED RETAIL PRICES DO NOT INCLUDE FEDERAL EXCISE TAX
ALL PRICES NET 2% CASH DISCOUNT ALREADY DEDUCTED

HAMPDEN
Watch-word of Quality Through the Years

Fabulous Beauty . . . HAMPDEN Diamond Watches

Every diamond guaranteed selected quality and color.

Ⓐ Alive with the fire of 24 selected fine quality diamonds, this precious watch has a 14K. white gold case . . . a dainty square dial with a modern dome crystal . . . and the marvelous 17 Jewel Hampden movement
Suggested Retail $275.00
No. 5100H Dealer's Each Net $153.37

Ⓑ Graceful almond-shape case studded with 18 blazing selected quality diamonds . . . 14K white gold with a high raised crystal for easy reading. The 17 Jewel Hampden movement guarantees years of faithful accuracy.
Suggested Retail $235.00
No. 5101H Dealer's Each Net $131.37

Ⓒ Ten shimmering diamonds of stunning beauty ring this 14K. white gold case . . . a high raised crystal adds sparkle and protects the precision-made 17 Jewel Hampden movement, guaranteed unfailingly accurate.
Suggested Retail $175.00
No. 5102H Dealer's Each Net $94.67

Ⓓ A brilliant spray of six diamonds, three at each side of the mirror-polished 14K. white gold case, adds its glowing loveliness to traditional design. Modern dome crystal, accurate 17 Jewel Hampden movement.
Suggested Retail $150.00
No. 5103H Dealer's Each Net $82.32

Ⓔ Four exquisitely matched diamonds light the graceful lines of a 14K. white gold case . . . a 10K. gold filled snake bracelet gleams against your wrist. Shining dome crystal . . . faithful 17 Jewel Hampden movement.
Suggested Retail $125.00
No. 5104H Dealer's Each Net $68.75

Ⓕ Twin diamonds, alike in fine quality and dramatic brilliance, give a luxurious note to this mirror polished 14K. white gold square case. Modern dome crystal, famed-for-accuracy 17 Jewel Hampden movement.
Suggested Retail $97.50
No. 5105H Dealer's Each Net $54.19

Ⓖ Modern but with the age-old beauty of two fire-filled diamonds . . one at each end of the 14K. white gold case. Supple 10K gold filled expansion bracelet polished dome crystal 17 Jewel Hampden movement.
Suggested Retail $105.00
No. 5106H Dealer's Each Net $57.28

HAMPDEN–Nationally Famous for Accuracy . . . Nationally Renowned for Beauty

[A] Two brilliantly matched diamonds highlight the sleek new design of a 14K. yellow gold mirror finished case with a square face, a dome crystal. 10K. gold filled modern link bracelet . . 17 Jewel Hampden movement, guaranteed accurate
Suggested Retail $72.50
No. 5107H Dealer's Each Net $39.79

[B] Two beautifully cut diamonds enhance the feminine beauty of a 14K. yellow gold mirror finished case. Polished dome crystal . . smart braided bracelet, 10K. gold filled For faithful service, the 17 Jewel Hampden movement.
Suggested Retail $72.50
No. 5108H Dealer's Each Net $39.79

[C] Skillful mirror-polishing brought a deep glow to this 14K. white gold case, dramatically simple in design It has a modern dome crystal, and the always accurate 17 Jewel movement by Hampden A stunning gift for someone dear to you
Suggested Retail $61.50
No. 5109H Dealer's Each Net $34.45

[C] Same watch as above in 14K yellow gold
Suggested Retail $61.50
No. 5110H Dealer's Each Net $34.45

[D] Modern with a hint of classic Greek design in the elegantly detailed 14K yellow gold case . . smart raised crystal . . sleek double snake bracelet, 10K yellow gold filled. Famous 17 Jewel Hampden movement, guaranteed accurate.
Suggested Retail $65.00
No. 5111H Dealer's Each . Net $37.04

[E] Stylized lily pattern in 14K. white gold is a charming feature of this highly polished square case . . . fashionable raised crystal . . dependable 17 Jewel Hampden movement.
Suggested Retail $61.50
No. 5112H Dealer's Each Net $34.45

[F] Gracefully shaped 14K yellow gold case with a stunning new expansion bracelet, 10K gold filled . . gleaming dome crystal . . nationally famous, accurate 17 Jewel Hampden movement
Suggested Retail $65.00
No. 5113H Dealer's Each Net $37.04

[G] Gently curved cushion outline contrasts attractively with the mirror polished end panels of this 14K. yellow gold case. Dome crystal. Guaranteed 17 Jewel Hampden movement
Suggested Retail $54.75
No. 5114H Dealer's Each . Net $30.53

[H] Symmetry is given a touch of genius in this 14K. yellow gold case with its smart, square face, dome crystal The guaranteed 17 Jewel Hampden movement is truly accurate.
Suggested Retail $54.75
No. 5115H Dealer's Each . Net $30.53

[J] Beautiful expansion bracelet matches this dainty, round-faced Florentine case . . both are exquisite 10K yellow gold filled . . . raised crystal Faithfully yours for accuracy, a 17 Jewel Hampden movement
Suggested Retail $48.95
No. 5116H Dealer's Each Net $27.39

[K] Mirror finished 10K. yellow gold filled case . . . matching sunbeam link bracelet . . . smart raised crystal. It has the virtue of beauty inside, too, in the faithful 17 Jewel Hampden movement, guaranteed for accuracy.
Suggested Retail $48.95
No. 5117H Dealer's Each . Net $27.39

Suggested Retail Prices Do Not Include Federal Excise Tax.

All Prices Net—2% Cash Discount Already Deducted

HAMPDEN WATCHES

* 17 Jeweled
* Dust Protected
* Guaranteed in Writing
* Anti Magnetic
* Handsomely Gift Boxed

L Sunny mirror-polish on a 10K yellow gold filled case of enchanting beauty . . . distinctive square face, dome crystal. Guaranteed for dependability . . . 17 Jewel Hampden movement
Suggested Retail $46.25
No. 5118H Dealer's Each Net **$25.87**

M Exceptionally good-looking Nurses' Watch with 14K. yellow gold case, sweep second hand, easily read face. Combination 3 adjustable snake and expansion bracelet, 10K. gold filled. A reliable 17 Jewel Hampden movement.
Suggested Retail $61.50
No. 5119H Dealer's Each Net **$33.96**

M Same as above, 10K yellow gold filled case
Suggested Retail $47.50
No. 5120H Dealer's Each Net **$26.41**

N For outstanding beauty and durability, this case is 10K. yellow rolled gold plate with a stainless steel back, dome crystal, 10K gold filled link bracelet. 17 J. Hampden movement.
Suggested Retail $44.75
No. 5121H Dealer's Each Net **$25.04**

O Feminine circle with a fine 10K. yellow rolled gold plate top, stainless steel back, and a high raised crystal. Matching 10K. gold filled link bracelet. 17 Jewel Hampden movement.
Suggested Retail $42.95
No. 5122H Dealer's Each Net **$24.01**

P Radiantly attractive modern square case, 10K. yellow rolled gold plate, stainless steel back, curved raised crystal, matching 10K gold filled chain bracelet. 17 J. Hampden movement.
Suggested Retail $42.95
No. 5123H Dealer's Each Net **$24.01**

Q Sleek, sparkling cushion case of 10K. yellow rolled gold plate with a stainless steel back . . . a gleaming raised crystal. Popular gift choice. 17 Jewel guaranteed Hampden movement.
Suggested Retail $41.25
No. 5124H Dealer's Each Net **$22.98**

R Glorious new design with a very modern look . . . 10K. white rolled gold plate case, highly polished . stainless steel back . gleaming dome crystal. Slender matching link bracelet. 10K. gold filled 17 Jewel Hampden movement.
Suggested Retail $42.95
No. 5125H Dealer's Each Net **$24.01**

R Same in 10K yellow rolled gold plate.
Suggested Retail $42.95
No. 5126H Dealer's Each Net **$24.01**

S A treasure of modern beauty and perfect accuracy . 10K yellow rolled gold plate with a stainless steel back, radiantly lovely curved raised crystal, 17 Jewel Hampden movement.
Suggested Retail $41.25
No. 5127H Dealer's Each Net **$22.98**

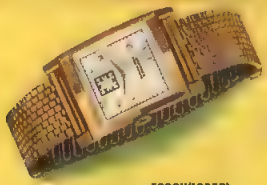
T Demurely simple lines in a round case, 10K. yellow rolled gold plate top . . . stainless steel back . easy-to-read face, curved crystal. Lovely 10K gold filled link bracelet nationally famous 17 Jewel Hampden movement
Suggested Retail $37.50
No. 5128H Dealer's Each Net **$20.92**

T Same as above, with sweep second hand
Suggested Retail $41.25
No. 5129H Dealer's Each Net **$22.64**

U Two matching diamonds, resplendently set in 10K. yellow rolled gold plate, with a non-corrosive steel back, a polished dome crystal Trim matching snake bracelet, 10K. gold filled. Accurate 17 Jewel Hampden movement
Suggested Retail $61.50
No. 5130H Dealer's Each Net **$32.93**

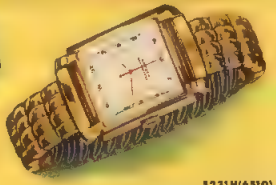
U Same diamond-set watch as above . in 10K white rolled gold plate
Suggested Retail $61.50
No. 5131H Dealer's Each Net **$32.93**

V Sophisticated circle of 14K yellow gold, its loveliness matched by a magnificent 10K. gold filled bracelet with expansion feature. Shining raised crystal . . . 17 Jewel Hampden movement, guaranteed for faithful, accurate service.
Suggested Retail $61.50
No. 5132H Dealer's Each Net **$33.27**



5229H(10830)
Pyramid style, smartly different mirror finished 14K yellow gold case, dust protected. Distinctive pyramid crystal. Raised figure dial. Combination mesh and expansion bracelet, 10K gold filled. Hampden 17 Jewel movement, guaranteed shock resistant.
Suggested retail . .$120.00

5230H(6020)
Rugged good looks in a **water repellent** all stainless steel watch with matching expansion bracelet. Dust protected case. Sweep second hand, unbreakable crystal, luminous radium figures and hands. Faithful 17 Jewel Hampden shock resistant movement.
Suggested retail. $58.25



5231H(6510)
Superbly masculine design with 10K yellow gold filled dust protected case and stainless steel back. Matching combination expansion bracelet. Sweep second hand, smart dome crystal, raised figure dial. Shock resistant accurate 17 Jewel Hampden movement.
Suggested retail..... ..$67.50

17 Jewel Accuracy • INCABLOC SHOCK RESISTANT **HAMPDEN** DUST PROTECTED • Anti-Magnetic • Gift Boxed

5232H(6530)
Distinctive, clean cut dust protected case, 10K yellow gold filled, with harmonizing 10K gold filled expansion bracelet. High crystal and raised figure dial for smartness, easy reading. Accurate 17 Jewel Hampden shock resistant movement.
Suggested retail....$67.50

5233H(10500)
Mid-Century modern watch in 14K yellow gold, mirror-polished to bring out all its sleek smartness. Dust protected case. High crystal, raised figure dial. Barrel expansion bracelet, 10K yellow gold filled. Shock resistant 17 Jewel Hampden movement.
Suggested retail $120.00

5234H(6860)
Same as above in 10K yellow gold filled case
Suggested retail $67.50

5235H(11610)
A favored presentation watch the 14K yellow gold pocket watch— improved, extra-thin, lightweight design. Dust protected case. Raised figure dial. 17 Jewel Hampden shock resistant movement for accuracy.
Suggested retail...$127.50

5236H(6160)
Same watch as above, with 10K yellow gold filled case.
Suggested Retail . $58.25

5237H(6160)
Popular circular style. 10K yellow gold filled top, stainless steel back. Dust protected case, raised figure dial. Smart matching expansion bracelet. Famous 17 Jewel guaranteed shock resistant Hampden movement.
Suggested retail.....$58.25

5238H(5390)
Streamlined dust protected case in 10K yellow rolled gold plate, stainless steel back. Matching masculine 10K gold filled expansion bracelet. Gleaming dome crystal, raised figure dial. 17 J. Hampden shock resistant movement.
Suggested retail.....$52.50

5239H(5930)
Aerodynamic styling in 10K yellow rolled gold plate dust protected case, stainless steel back. Streamlined dome crystal, raised figure dial. 10K yellow gold filled tower expansion bracelet. 17 J. Hampden shock resistant movement.
Suggested retail..... $58.25

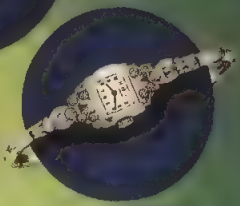
5240H(5250)
Plume style dust protected case in fine 10K yellow rolled gold plate top, stainless steel back. High crystal, raised figure dial. 10K yellow gold filled expansion bracelet. 17 Jewel Hampden guaranteed shock resistant movement.
Suggested retail..... ...$49.50

HAMPDEN

Incabloc Shock Resistant 17 Jewel Watches

5201H(29190)
Eighteen blazing selected quality **diamonds** in a graceful 14K white gold dust protected case. High crystal, raised figure dial. Black silk cord. 17 Jewel Hampden shock resistant movement guarantees accuracy.
Suggested retail $315.00

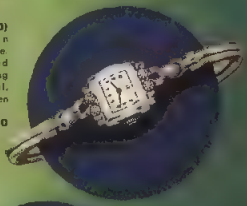
5202H(22960)
Ten select quality **diamonds** in a stunning 14K white gold dust protected case. Dome crystal, raised figure dial. Enchanting 10K white gold filled expansion bracelet. Precision made 17 Jewel Hampden shock resistant movement.
Suggested retail . . $250.00



5203H(18450)
Six diamonds blaze in a brilliant spray, three at each side of a 14K white gold dust protected case. Modern dome crystal, raised figure dial. 10K white gold filled expansion bracelet. Accurate 17 Jewel Hampden shock resistant movement.
Suggested retail $215.00

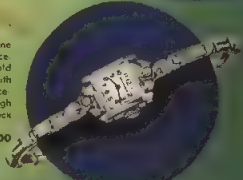
HAMPDEN DIAMOND WATCHES

Genuine diamonds of selected quality and color



5204H(15610)
Four exquisitely matched **diamonds** in a 14K white gold dust protected case. Harmonizing 10K white gold filled double strand snake bracelet. Shining dome crystal, raised figure dial. Famous, faithful, 17 Jewel Hampden shock resistant movement.
Suggested retail $175.00

5200H(34450)
Twenty-four brilliant **diamonds** set in a dainty 14K white gold dust protected case. Smart raised figure dial, gleaming dome crystal. Black silk cord. Marvelous 17 Jewel Hampden shock resistant movement.
Suggested retail. $375.00



5205H(12490)
Twin diamonds, alike in fine quality and dramatic brilliance. Mirror-polished 14K white gold square dust protected case with 10K gold filled expansion bracelet. Raised figure dial and high crystal. 17 Jewel Hampden shock resistant movement.
Suggested retail $150.00

- ★ **Famous for quality through the years**
- ★ **17 Jewels for precision time keeping**
- ★ **Shock Protected with patented Incabloc**
- ★ **Dust Protected ★ Anti-Magnetic**
- ★ **Metalinvar Hairspring assures accuracy**
- ★ **Every watch Electronically Tested**
- ★ **Fully Guaranteed—with certificate**
- ★ **Distinctive styles—lasting beauty**
- ★ **Handsome Gift Box with each watch**

5206H(12490)
Two fire-filled **diamonds,** one at each end of a lovely 14K white gold case, dust protected. Supple 10K gold filled snake bracelet. Shimmering dome crystal, smart raised figure dial. 17 Jewel Hampden shock resistant movement.
Suggested retail $130.00

Hampden parts are standard and interchangeable, available at jewelers everywhere. Watches are illustrated ⅔ actual size, diamonds greatly enlarged. Shock resistant, water repellent, and anti-magnetic features guaranteed to conform with specifications of the Federal Trade Commission. Suggested retail prices include Federal Excise Tax as of June 23, 1951. Dealer prices © P.S. approved. Prices subject to change without notice.

5207H(9380)
Two diamonds radiantly matched, highlight the brilliant design of a mirror-finished, dust protected case, 14K yellow gold with raised figure dial and dome crystal. Dainty 10K yellow gold filled expansion bracelet. 17 Jewel Hampden shock resistant movement.
Suggested retail . . $100.00

5208H(8190)
Artistry of design in a mirror polished 14K yellow gold dust protected case dramatized by simple Modern dome crystal, raised figure dial. 10K gold filled combination snake and expansion bracelet. Always accurate 7 Jewel shock resistant movement by Hampden.
Suggested retail... $90.00

5209H(8190)
Modern design in an elegantly detailed 14K yellow gold dust protected case. High crystal, raised figure dial. Sleek double strand snake bracelet. 10K yellow gold filled. Famous 17 Jewel Hampden shock resistant movement.
Suggested retail. . . $90.00

5210H(8190)
Traditional 14K white gold dust protected square case daintily feminine. Complemented by a telescopic 10K white gold filled expansion bracelet. High crystal raised figure dial. 17 Jewel Hampden shock resistant movement.
Suggested retail.... . . $90.00

HAMPDEN

Time Honored
Time Keepers

17 Jewel Watches
of outstanding quality
and exquisite beauty

5211H(8190)
Gracefully shaped petite 14K yellow gold dust protected case with a stunning expansion bracelet, 10K gold filled. Gleaming dome crystal, raised figure dial. Nationally famous 17 Jewel Hampden shock resistant movement.
Suggested retail . . $90.00

5212H(7420)
Symmetry is given a touch of genius in this 14K yellow gold dust protected case with its smart square face shining dome crystal raised figure dial. 10K gold filled expansion bracelet. The guaranteed 17 Jewel Hampden shock resistant movement is truly accurate.
Suggested retail . . $71.50

5213H(6370)
Beautiful expansion bracelet matches this dainty, round faced Florentine dust protected case both 10K yellow gold filled. Raised figure dial, over high crystal. Faithfully yours 17 Jewel Hampden shock resistant movement.
Suggested retail $62.50

5214H(7420)
Lovely cushion case of 14K yellow gold enhanced by exquisite expansion bracelet 10K gold filled. Shining dome crystal, raised figure dial. 17 Jewel Hampden shock resistant movement, guaranteed for faithful service.
Suggested retail . $71.50

5215H(6090)
Charming cushion case dust protected and mirror polished 10K yellow gold filled. Matching sunbeam link bracelet. Smart raised figure dial, high crystal. Guaranteed faithful the 7 Jewel Hampden shock resistant movement.
Suggested retail $58.25

5216H(6370)
Sunny mirror polish on a 10K yellow gold filled dust protected case of enchanting beauty, complemented by a graceful 10K gold filled expansion bracelet. Stunning dome crystal. Raised figure dial. Guaranteed accurate 17 Jewel Hampden shock resistant movement.
Suggested retail..... $62.50

3217H(7490)
Nurse's watch, cherished for accuracy and dependability, in 14K yellow gold dust protected case. Stunning expansion circlet, 10K yellow gold filled. Practical sweep second hand. Easy-to-read raised figure dial. Famous 17 Jewel Hampden shock resistant movement.
Suggested retail.....$71.50

3218H(6090)
Same as above, case of 10K yellow gold filled
Suggested retail.....$58.25

3220H(7350)
Two brilliant **diamonds,** set in a stylish 10K yellow rolled gold plate dust protected case with a stainless steel back. Polished dome crystal, raised figure dial. Trim matching supple snake bracelet, 10K gold filled. Accurate 17 Jewel Hampden shock resistant movement.
Suggested retail..... $71.50

3221H(7330)
Same watch as above, in 10K **white** rolled gold plate, stainless steel back.
Suggested retail..... $71.50

3219H(5460)
Ball-ontly attractive modern square dust protected 10K yellow rolled gold plate case, stainless steel back. Matching 10K gold filled expansion bracelet Gleaming dome crystal, raised figure dial. Accurate 17 Jewel shock resistant Hampden movement
Suggested retail..... $52.50

HAMPDEN

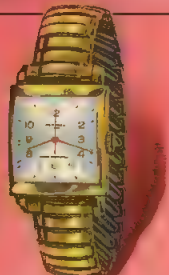
- ★ 17 Jeweled
- ★ Shock Resi
- ★ Dust Protected
- ★ Anti-Magnetic
- ★ Fully Guaranteed
- ★ Smart new styles
- ★ [illegible]

3222H(5460)
Sleek, sparkling cushion case, dust protected, of 10K yellow rolled gold plate with a stainless steel back. Lovely matching chain bracelet Gleaming high crystal, raised figure dial. 17 Jewel shock resistant Hampden movement.
Suggested retail..... $52.50

3223H(5460)
Treasure of modern beauty and twentieth century accuracy. 10K yellow rolled gold plate dust protected case, stainless steel back. Matching expansion bracelet. Dome crystal. 17 Jewel Hampden shock resistant movement
Suggested retail $52.50

SELF-WINDING AUTOMATICS FOR MEN

3226H(10570)
Newly famous **Calendar** watch—**automatic self-winding.** Windows on dial show month and day of week. Red tipped blue hand shows date 10K yellow gold filled dust protected case. Matching expansion bracelet Raised figure dial. Faithful 7 Jewel Hampden shock resistant movement
Suggested retail . . $120.00



3227H(9310)
Self-winding automatic in a masculine 10K yellow gold filled dust protected case with a unique two tone dial. High crystal, raised figure dial, sweep second hand. 10K yellow gold filled expansion bracelet. Electronically tested 17 Jewel Hampden shock resistant movement assures accuracy.
Suggested retail.....$100.00

3228H(7900)
Know the convenience of a fine **automatic** in winds itself on your wrist. Smartly styled with all stainless steel, **water repellent,** dust protected case. Unbreakable crystal. Sweep second hand Luminous figure dial and hands. Mesh and expansion bracelet 17 Jewel Hampden shock resistant movement
Suggested retail.....$85.00

3224H(5180)
Beauty in simplicity—lovely 10K yellow rolled gold plate dust protected case, stainless steel back. Charmingly different 10K yellow gold filled expansion bracelet. High visibility raised figure dial. Famous 17 Jewel Hampden shock resistant movement
Suggested retail.. ... $49.50

3225H(5530)
Same as above with sweep second hand
Suggested retail.. ... $52.50

HAMPDEN

Famed 17 Jewel Accuracy • Shock Resistant* • Dust Protected • Anti-Magnetic* • Gift Boxed

A Mid-Century Modern man's watch in 14K, yellow gold, mirror-polished. High visibility raised crystal, new barrel expansion bracelet, 10K, yellow gold filled. Shock-resistant* 17 Jewel Hampden movement.
Suggested Retail $90.00
IW5133H..... Each **$48.90**

A Same as above, with 10K. yellow gold filled case.
Suggested Retail $55.75
IW5134H..... Each **$30.97**

B Smart and different—the brand-new 14K. yellow gold, mirror-finished, Pyramid Case with stunning pyramid crystal Top grade alligator strap. Hampden 17 Jewel movement, guaranteed shock-resistant.*
Suggested Retail $85.25
IW5135H..... Each **$47.65**

C The Hampden AUTOMATIC it winds itself on your wrist. All stainless steel case; water-repellent; anti-magnetic*; luminous numbers and hands; sweep second hand; matching combination mesh and expansion bracelet. Famous 17 Jewel Hampden shock-resistant* movement.
Suggested Retail $65.00
IW5136H..... Each **$36.70**

D Distinctive square case, 10K yellow gold filled, with matching expansion bracelet. Raised crystal. Accurate 17 Jewel Hampden shock-resistant* movement.
Suggested Retail $55.75
IW5137H..... Each **$30.97**

E Popular circular style . . . 10K. yellow gold filled top . . . stainless steel back . . . matching combination link and expansion bracelet. Famous 17 Jewel guaranteed shock-resistant* Hampden movement
Suggested Retail $51.50
IW5138H..... Each **$28.81**

E Same as above, in 10K. yellow rolled gold plate top, stainless steel back . . . standard 17 Jewel Hampden movement. Pigskin strap.
Suggested Retail $37.50
IW5139H..... Each **$20.58**

F Handsome curved lines...10K, yellow gold filled top, stainless steel back . . . 10K gold filled expansion bracelet. Shock-resistant* 17 Jewel Hampden movement.
Suggested Retail $48.95
IW5140H..... Each **$27.39**

G Masculine design 10K yellow gold filled top, Stainless steel back. Sweep second hand, smart dome crystal Mesh and expansion bracelet, 10K. gold filled. Shock-resistant* accurate 17 Jewel Hampden movement.
Suggested Retail $54.75
IW5141H..... Each **$29.79**

H Rugged water-repellent, antimagnetic* all stainless steel watch, matching expansion bracelet Sweep second hand; luminous numbers and hands. 17 Jewel Hampden movement, guaranteed shock-resistant*.
Suggested Retail $51.50
IW5142H..... Each **$28.81**

J Streamlined . . . 10K. yellow rolled gold plate top, stainless steel back . . . smart 10K. gold filled expansion bracelet. Gleaming dome crystal. Incomparable 17 Jewel Hampden shock-resistant* movement.
Suggested Retail $44.75
IW5143H..... Each **$24.70**

K Attractively detailed case with fine 10K. yellow rolled gold plate top, stainless steel back, genuine pigskin strap. High raised crystal . . . famous 17 Jewel Hampden guaranteed shock-resistant* movement.
Suggested Retail $39.75
IW5144H..... Each **$21.61**

L Traditional fine 14K. yellow gold pocket watch improved, extra-thin, lightweight design. This is a favored presentation watch with the famous 17 Jewel Hampden movement, guaranteed for accuracy
Suggested Retail $97.50
IW5145H..... Each **$54.24**

L Same as above, with 10K yellow gold filled case.
Suggested Retail $48.95
IW5146H..... Each **$27.39**

L Same as above, 10K. yellow rolled gold plate case.
Suggested Retail $44.75
IW5147H..... Each **$24.65**

Guaranteed to conform with specifications issued by the Federal Trade Commission. Printed guarantees and specifications enclosed with each watch.

Suggested Retail Prices Do Not Include Fed. Excise Tax.

ALL PRICES NET- 2% CASH DISCOUNT ALREADY DEDUCTED.

HAMPDEN

Nationally Famous 17 Jewel Watches

- Dust Protected
- Anti Magnetic
- Accurate . . . 17 Jeweled for maximum efficiency!
- Fully Guaranteed . . . by a written certificate!
- Precision Made . . . by new, modern techniques!
- Beautiful . . . finest taste in original designs!
- Gift Boxed . . . in a dramatic presentation box that can be used as a stunning jewel box!
- Proved dependable . . . by years of service!

HAMPDEN

Watch-word of Quality Through the Years

Hampden parts are standard and interchangeable, available at most reliable jewelry and watch repair shops. Watches are illustrated ⅞ of actual size.

SUGGESTED RETAIL PRICES DO NOT INCLUDE FEDERAL EXCISE TAX

ALL PRICES NET −2% CASH DISCOUNT ALREADY DEDUCTED.

Fabulous Beauty . . . HAMPDEN Diamond Watches

Every diamond guaranteed selected quality and color.

A Alive with the fire of 24 selected fine quality diamonds, this precious watch has a 14K. white gold case . . . a dainty square dial with a modern dome crystal . . . and the marvelous 17 Jewel Hampden movement.
Suggested Retail $275.00
IW5100H . . . . . Each **$153.37**

B Graceful almond-shape case studded with 18 blazing selected quality diamonds . . . 14K. white gold with a high raised crystal for easy reading. The 17 Jewel Hampden movement guarantees years of faithful accuracy.
Suggested Retail $235.00
IW5101H . . . . . Each **$131.37**

C Ten shimmering diamonds of stunning beauty ring this 14K. white gold case . . . a high raised crystal adds sparkle and protects the precision-made 17 Jewel Hampden movement, guaranteed unfailingly accurate.
Suggested Retail $175.00
IW5102H . . . . . Each **$94.67**

D A brilliant spray of six diamonds, three at each side of the mirror-polished 14K. white gold case, adds its glowing loveliness to traditional design. Modern dome crystal, accurate 17 Jewel Hampden movement.
Suggested Retail $150.00
IW5103H . . . . . Each **$82.32**

E Four exquisitely matched diamonds light the graceful lines of a 14K. white gold case . . . a 10K. gold filled snake bracelet gleams against your wrist. Shining dome crystal . . . faithful 17 Jewel Hampden movement.
Suggested Retail $125.00
IW5104H . . . . . Each **$68.75**

F Twin diamonds, alike in fine quality and dramatic brilliance, give a luxurious note to this mirror polished 14K. white gold square case. Modern dome crystal, famed-for-accuracy 17 Jewel Hampden movement.
Suggested Retail $97.50
IW5105H . . . . . Each **$54.19**

G Modern . . . but with the age-old beauty of two fire-filled diamonds . . . one at each end of the 14K. white gold case. Supple 10K gold filled expansion bracelet . . . polished dome crystal . . . 17 Jewel Hampden movement.
Suggested Retail $105.00
IW5106H . . . . . Each **$57.28**

HAMPDEN—Nationally Famous for Accuracy . . . Nationally Renowned for Beauty

(A) Two brilliantly matched diamonds highlight the sleek new design of a 14K yellow gold mirror finished case with a square face, a dome crystal. 10K. gold filled modern link bracelet . . . 17 Jewel Hampden movement, guaranteed accurate.
Suggested Retail $72.50
IW5107H . . . . . Each **$39.79**

(B) Two beautifully cut diamonds enhance the feminine beauty of a 14K. yellow gold mirror finished case. Polished dome crystal . . . smart braided bracelet, 10K. gold filled. For faithful service, the 17 Jewel Hampden movement.
Suggested Retail $72.50
IW5108H . . . . . Each **$39.79**

(C) Skillful mirror-polishing brought a deep glow to this 14K. white gold case, dramatically simple in design. It has a modern dome crystal . . . and the always accurate 17 Jewel movement by Hampden. A stunning gift for someone dear to you.
Suggested Retail $61.50
IW5109H . . . . . Each **$34.45**

(C) Same watch as above . . . in 14K. yellow gold.
Suggested Retail $61.50
IW5110H . . . . . Each **$34.45**

(D) Modern with a hint of classic Greek design in the elegantly detailed 14K. yellow gold case . . . smart raised crystal . . . sleek double snake bracelet, 10K. yellow gold filled. Famous 17 Jewel Hampden movement, guaranteed accurate.
Suggested Retail $65.00
IW5111H . . . . . Each **$37.04**

(E) Stylized lily pattern in 14K. white gold is a charming feature of this highly polished square case . . . fashionable raised crystal . . . dependable 17 Jewel Hampden movement.
Suggested Retail $61.50
IW5112H . . . . . Each **$34.45**

(F) Gracefully shaped 14K. yellow gold case with a stunning new expansion bracelet, 10K. gold filled . . . gleaming dome crystal . . . nationally famous, accurate 17 Jewel Hampden movement.
Suggested Retail $65.00
IW5113H . . . . . Each **$37.04**

(G) Gently curved cushion outline contrasts attractively with the mirror polished end panels of this 14K. yellow gold case. Dome crystal. Guaranteed 17 Jewel Hampden movement.
Suggested Retail $54.75
IW5114H . . . . . Each **$30.53**

(H) Symmetry is given a touch of genius in this 14K. yellow gold case with its smart, square face, dome crystal. The guaranteed 17 Jewel Hampden movement is truly accurate.
Suggested Retail $54.75
IW5115H . . . . . Each **$30.53**

(J) Beautiful expansion bracelet matches this dainty, round-faced Florentine case . . . both are exquisite 10K. yellow gold filled . . . raised crystal. Faithfully yours for accuracy, a 17 Jewel Hampden movement.
Suggested Retail $48.95
IW5116H . . . . . Each **$27.39**

(K) Mirror finished 10K. yellow gold filled case . . . matching sunbeam link bracelet . . . smart raised crystal. It has the virtue of beauty inside, too, in the faithful 17 Jewel Hampden movement, guaranteed for accuracy.
Suggested Retail $48.95
IW5117H . . . . . Each **$27.39**

Suggested Retail Prices Do Not Include Federal Excise Tax.

All Prices Net—2% Cash Discount Already Deducted.

(L) Sunny mirror-polish on a 10K. yellow gold filled case of enchanting beauty . . . distinctive square face, dome crystal. Guaranteed for dependability . . . 17 Jewel Hampden movement.
Suggested Retail $46.25
IW5118H . . . . . Each **$25.87**

(M) Exceptionally good-looking Nurses' Watch with 14K. yellow gold case, sweep second hand, easily read face. Combination double snake and expansion bracelet, 10K. gold filled. A reliable 17 Jewel Hampden movement.
Suggested Retail $61.50
IW5119H . . . . . Each **$33.96**

(M) Same as above, 10K. yellow gold filled case.
Suggested Retail $47.50
IW5120H . . . . . Each **$26.41**

(N) For outstanding beauty and durability, this case is 10K. yellow rolled gold plate with a stainless steel back, dome crystal, 10K. gold filled link bracelet. 17 J. Hampden movement.
Suggested Retail $44.75
IW5121H . . . . . Each **$25.04**

(O) Feminine circle with a fine 10K. yellow rolled gold plate top, stainless steel back, and a high raised crystal. Matching 10K. gold filled link bracelet . 17 Jewel Hampden movement.
Suggested Retail $42.95
IW5122H . . . . . Each **$24.01**

(P) Radiantly attractive modern square case, 10K. yellow rolled gold plate, stainless steel back, curved raised crystal, matching 10K. gold filled chain bracelet. 17 J. Hampden movement.
Suggested Retail $42.95
IW5123H . . . . . Each **$24.01**

(Q) Sleek, sparkling cushion case of 10K. yellow rolled gold plate with a stainless steel back . . . a gleaming raised crystal, Popular gift choice. 17 Jewel guaranteed Hampden movement.
Suggested Retail $41.25
IW5124H . . . . . Each **$22.98**

(R) Glorious new design with a very modern look . . 10K. white rolled gold plate case, highly polished . . . stainless steel back . . . gleaming dome crystal. Slender matching link bracelet, 10K. gold filled. 17 Jewel Hampden movement.
Suggested Retail $42.95
IW5125H . . . . . Each **$24.01**

(R) Same in 10K. yellow rolled gold plate.
Suggested Retail $42.95
IW5126H . . . . . Each **$24.01**

(S) A treasure of modern beauty and perfect accuracy . . . 10K. yellow rolled gold plate with a stainless steel back, radiantly lovely curved raised crystal, 17 Jewel Hampden movement.
Suggested Retail $41.25
IW5127H . . . . . Each **$22.98**

(T) Demurely simple lines in a round case, 10K. yellow rolled gold plate top . . . stainless steel back . . . easy-to-read face, curved crystal. Lovely 10K. gold filled link bracelet . . . nationally famous 17 Jewel Hampden movement.
Suggested Retail $37.50
IW5128H . . . . . Each **$20.92**

(T) Same as above, with sweep second hand
Suggested Retail $41.25
IW5129H . . . . . Each **$22.64**

(U) Two matching diamonds, resplendently set in 10K. yellow rolled gold plate, with a non-corrosive steel back, a polished dome crystal Trim matching snake bracelet, 10K. gold filled. Accurate 17 Jewel Hampden movement.
Suggested Retail $61.50
IW5130H . . . . . Each **$32.93**

(U) Same diamond-set watch as above . in 10K. white rolled gold plate.
Suggested Retail $61.50
IW5131H . . . . . Each **$32.93**

(V) Sophisticated circle of 14K. yellow gold, its loveliness matched by a magnificent 10K. gold filled bracelet with expansion feature. Shining raised crystal . . . 17 Jewel Hampden movement, guaranteed for faithful, accurate service.
Suggested Retail $61.50
IW5132H . . . . . Each **$33.27**

IDEAL DOLLS

IDEAL'S

Toni

DOLL

IDEAL'S

BLESSED EVENT

DOLL

IDEAL TOYS ARE NEW—EXCITING—DIFFERENT!

IDEAL'S

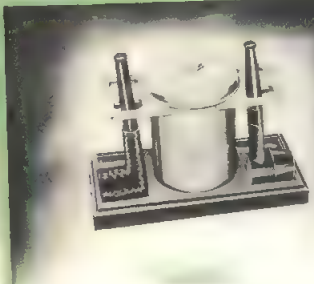
IDEAL STUFFED TOYS

RUDOLPH
THE RED-NOSED REINDEER

TUMBLING BEAR

IDEAL-PLASTICS

BLUE WILLOW
TEA SETS

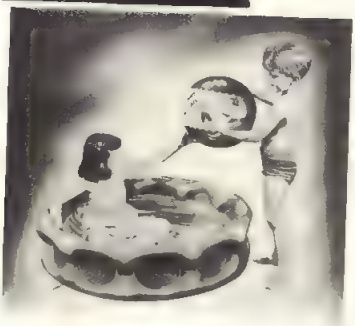


BUBBLE PIPE
AND HUMIDOR

...and more...

IDEAL TOYS GET "TOP BILLING" EVERYWHERE!

IDEAL INFLATABLES



SUPERWALL

IDEAL PRE-SCHOOL TOYS

PEG BENCH AND
BLACKBOARD SET

NOW!

COME IN TO ROOM **416**
AND SEE IDEAL'S

NEW MEDAL WINNERS!

IDEAL TOY CORPORATION

FORMERLY IDEAL NOVELTY & TOY CO.

200 FIFTH AVE., New York 10, N.Y.

CHICAGO
14-108 Merchandise Mart

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903 Commerce St.

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it's become a

HABIT

Ideal is *always* toy news!
Ideal toy promotions pay off for you!.

...That's why toy buyers
Look to IDEAL for smash hits!

HERE ARE JUST A FEW OF IDEAL'S CURRENT SMASH HITS...

JEWEL RADIOS
and Phonograph Combinations

JEWEL "NUGGET" MIDGET TABLE RADIO

Beautiful performance and styling for any room in the home. Excellent reception and trouble-free performance. Alnico V P M speaker. Exclusive new full sweep dial. Selective performance. 540-1650 kilocycle tuning range. AC DC operation. Convenient plastic knobs. Molded all-plastic cabinet in Ivory or Walnut colors. Size 5⅛" high, 7⅜" wide, 4⅞" deep. Approx. weight 2¾ lbs.

No. 3A72. Walnut. Retail 16.75. Each 13.39

No. 3A73. Ivory. Retail 18.95. Each ..... .14 02

Jewel 3-Way Portable. Ideal for [illegible] room size [illegible] designed for [illegible] performance [illegible]. When using AC or [illegible] to play [illegible] Superheterodyne circuit 4 tubes plus selenium rectifier. Large Alnico V P M speaker. Built-in Duraloop antenna operates on AC, DC or batteries. Large 90-volt "B" battery for increased efficiency. Rich low [illegible] dial-plate. Slide flat handle. Covered in maroon simulated alligator covering. Grille cloth is weather-proof, washable. [illegible] Has battery-saver. Power 6 x 4 inches high, 10 [illegible] inches wide 4½ inches deep. Weight approximately 6½ lbs. including batteries. Retail without batteries 31.45.

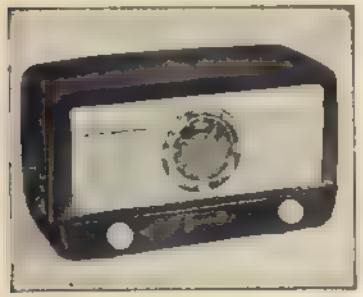
No. 3A68. [illegible] 21.79

[illegible] ..... .22 29

BATTERIES

Battery Set for 3A68 Radio. Contains one 90 volt B battery and one 1½ volt A battery. Retail 4.25.

No. 3A61. Per set 3 28



Jewel Wakemaster with Electronic Appliance Switch. The clock-controlled radio. Serves you in the kitchen as well as every other room of the house. In addition to automatic wake-up and shut-off features, starts your coffee "perking" or switches on other electric appliances—your toaster, heater or fan—even turns on a wake-up light. Superheterodyne radio with 5 tubes, including rectifier. Telechron sweep second alarm movement, multi-color luminous clock has polished brass rim and cut out numerals. Electronic appliance switch. Slide rule Vernier dial. Built-in Duraloop antenna. 60 cycle AC, approved by Underwriters' Laboratories. Cabinet body of bakelite or urea with contrasting grille in Ivory or Walnut. 7⅞ inches high, 12⅝ inches wide x 5⅛ inches deep.

Walnut. Lots of 6 [illegible]

No. 3A69. Lots of 6. Each ..... .28 82

Each 29 32

Ivory. Retail 44.95

No. 3A70. Lots of 6. Each 29.66

Each 30.16

JEWEL TABLE MODEL RADIO

A distinctively designed modern cabinet in Walnut colored plastic. No outside aerials or ground leads needed. Superheterodyne circuit with 2 I.F. transformers. 5 tubes including rectifier. AC-DC operation. Built-in DURALOOP antenna. Big bold new dial with exclusive dial drive eliminating old-fashioned stringing. Size 9⅝" wide, 6" high, 4⅞" deep. Approx. weight 4 lbs. Retail 22.00.

No. 3A74. Lots of 6. Each ..... .16 33

Each 16 83

Jewel TABLE RADIO

An entirely new concept of dial design with more than 30 square inches of dial face for simplified tuning. Note the plaque-type [illegible] numerals and ornamental indicator, the graceful lines and the handsome symmetry. Superheterodyne circuit. Uses 2 I.F. transformers, 5 tubes including rectifier. AC-DC operation. Self-contained loop antenna. Weight approximately 5 lbs. Size 7⅜ x 12⅜ x 5⅛ inches. Moulded all-plastic cabinet in pure plastic colors. Ivory and Ebony.

Walnut. Retail 28.50.

No. 3A62. Lots of 6. Each 18 48

Each 18 98

Ivory. Retail 28.50.

No. 3A63. Lots of 6. Each 19.74

Each ..... .20 24

Jewel Radio & Phonograph Combination. With Webster 8-speed automatic changer, incorporates the three speeds playing 33⅓, 45, and 78 R.P.M. records. 5 tubes including rectifier. Superheterodyne chassis amplifier with variable volume and tone control. AC and DC. Genuine Mahogany veneer cabinet. Overall dimensions 18¾ inches x 13⅛ inches x 9 inches. Retail 115.45.

No. 3A71. Each 74.55

LOTS OF 6 OR MORE PRICE APPLIES TO ORDERS FOR 6 OF ONE MODEL OR ASSORTED

MONARCH

Handsome table model cabinet with hand rubbed Mahogany finish brings out the natural loveliness of the finely grained veneer stock. Attractive bronzed escutcheon and contrasting knobs for added beauty. Measures 18½ inches high, 19 inches wide, 19⅛ inches deep. Shipping weight approximately 85 lbs.

16 INCH SCREEN TABLE MODEL

Giant 16 inch direct view no-glare picture tube. Nearly 150 square inches of picture. Simplified tuning controls. Only two knobs required for adjusting picture and sound. Additional controls for occasional adjustment of Horizontal, Vertical, Brightness and Focus are conveniently located in front behind attractive snap shut plate. Has 18 tubes plus 3 rectifier and one picture tube. All tubes are of latest type giving the receiver ideal picture and sound reception.

No. 3A2 • RETAIL 249.95
(Plus 7.50 Parts Warranty)

	Lots of 3	Each
Cost of Set	184.96	188.46
Parts Warranty	7.50	7.50
YOUR COST	**192.46**	**195.96**

GENERAL

- **BUILT-IN ADJUST-O-LOC ANTENNA**
  Will perform wherever indoor antenna gives satisfactory performance. Only one adjustment required at time of installation. Connections also provided for outside antenna if desired.
- **COMPLETE STATION COVERAGE**
  Will tune in any and all stations operating in any locality within the United States.
- **SUPER-POWER CHASSIS**
  Assures finest picture clarity in any reception area.
- **COMPENSATED PICTURE CONTROL**
  New balance contrast circuit automatically balances contrast with brightness. Simplifies all picture adjustments.
- **MAXIMUM PICTURE AREA FOR EACH TUBE SIZE**
  Reproduces in the same area as the TV camera. Utilizes maximum area of the tube with no distortion or stretching of the picture.
- **AUTOMATIC GAIN CONTROL**
  Prevents overload on strong signals.
- **AUTOMATIC LOCK-IN PICTURE CIRCUIT**
  Prevents horizontal picture movement. Decreases effect of local electrical or mechanical interference.

16 INCH SCREEN

Giant 16 inch direct view no-glare picture tube. 150 square inches of picture area. Simplified tuning controls. Only two knobs required for adjusting picture and sound. Additional controls for occasional adjustment of Horizontal, Vertical, Brightness and Focus are conveniently located on front of receiver behind attractive escutcheon plate. Has 18 tubes plus 2 rectifiers and one picture tube. All tubes are of latest type giving the receiver ideal picture and sound reception. Gracefully proportioned conventional modern cabinet. Hand rubbed to bring out the rich, natural loveliness of the finely grained veneer stock. Gracefully curved base adds richness to the overall design. Beautiful bronzed escutcheon and speaker grille for added beauty. Measures 21½ inches wide, 36 inches high and 20 inches deep. Shipping weight approximately 120 lbs.

No. 3A3 • RETAIL 279.95
(Plus 7.50 Parts Warranty)

	Lots of 3	Each
Cost of Set	204.36	207.86
Parts Warranty	7.50	7.50
YOUR COST	**211.86**	**215.36**

16 INCH SCREEN
WITH PUSH BUTTON TUNING

Giant 16 inch direct view no-glare picture tube. Push button tuning with complete station coverage. 12 push buttons are provided for quick easy selection of stations. Simplified tuning controls. Only two knobs required for adjusting picture and sound. Tuning controls also provided for fine adjustment on weak signals. Super power chassis assures outstanding performance even in fringe areas. Has 21 tubes plus two rectifiers and one picture tube. All are of the latest type giving the maximum range for receiving ideal pictures. Conventional modern cabinet, hand rubbed to bring out the rich, natural loveliness of the finely grained veneer stock. Gracefully curved base adds richness to the overall design. Beautiful bronzed dial escutcheon and speaker grille for added beauty. Measures 21½ inches wide, 36 inches high, 20 inches deep. Shipping weight approximately 120 lbs.

No. 3A59 • RETAIL 299.95
(Plus 7.50 Parts Warranty)

	Lots of 3	Each
Cost of Set	218.96	222.46
Parts Warranty	7.50	7.50
YOUR COST	**226.46**	**229.96**

TELEVISION

SPECIFICATIONS

- **INTERCARRIER SOUND CIRCUIT.**
  Latest advanced type of receiver design eliminates warm up drift and microphonics at high sound volume.
- **FULL RANGE FM SOUND CIRCUIT.**
  Eliminates static and reproduces the brilliant highs and lows with true fidelity.
- **POWERFUL PM DYNAMIC SPEAKER.**
  Has large Alnico magnet for high efficiency and perfect tone reproduction.
- **DISTINCTIVE CABINETRY.**
  All cabinets are gracefully proportioned conventional modern design. They are fine pieces of furniture that will grace the most beautiful rooms.
- **UNDERWRITERS' LABORATORIES APPROVED.**
  Reliable safety devices have been incorporated to give complete protection against hazards such as shock, fire, tube breakage, etc.

MAMMOTH 20 INCH SCREEN

Mammoth 20 inch direct view no-glare picture tube. Nearly 200 square inches of picture area. The screen is perfectly engineered so that it utilizes the maximum area of the tube with no distortion or stretching of the picture. Twelve push buttons are provided for quick easy selection. It is the simplest and most convenient form of station selection. Has two knobs required for adjustment of picture and sound. Additional controls are provided for fine adjustment on weak signals. Has 21 tubes, plus two rectifiers and one picture tube. All are of the latest type giving the receiver maximum range with ideal picture and sound reception. Full console cabinet. Hand rubbed to bring out the rich natural loveliness of the finest gum and veneer stock. Gracefully curved base and arch adds to the overall design. Beautiful bronzed dial escutcheon and speaker grille for added beauty. Measures 26 inches wide, 41¾ inches high and 22¾ inches deep.

No. 3A9 • RETAIL 399.95

(Plus 12.50 Parts Warranty)

	Lots of 3	Each
Cost of Set	287.96	291.46
Parts Warranty	12.50	12.50
YOUR COST	**300.46**	**303.96**

• 16 Inch Television
• Radio Receiver
• 3-Speed Record Changer

16 INCH SCREEN COMBINATION

Giant 16 inch direct view no-glare picture tube. The television chassis has all the fine features of other makes shown on this page. Has 21 tubes plus two rectifiers and one picture tube. The radio features powerful superheterodyne circuit with four RCA tubes plus rectifier. Includes two dual purpose tubes giving six tube performance. Variable tone control. Large illuminated dial calibrated. Standard broadcast band from 540KC to 1720KC. Triple play phonograph has the famous Webster 411 type three speed automatic changer. Provides automatic playing of 7 inch, 10 inch or 12 inch records at speeds of 33⅓, 45, and 78 RPM. Built-in lifetime needle for all speeds. Compact console cabinet. Hand rubbed throughout to a rich natural luster bringing out the beauty of the finely grained woods. Sound systems with A/M radio and triple play phonograph installed in easy glide drawer at base of cabinet. Snug fit front gives appearance of single unit when drawer is closed. Matching escutcheon and speaker grille in bronze finish for added beauty. Overall dimensions, 39 inches high, 20 inches deep and 21¾ inches wide.

No. 3A8 • RETAIL 399.95

(Plus 12.50 Parts Warranty)

	Lots of 3	Each
Cost of Set	287.96	291.46
Parts Warranty	12.50	12.50
YOUR COST	**300.46**	**303.96**

FACTORY GUARANTEED

The manufacturer warrants to the original purchaser of the television receiver of the serial number shown on set and all parts thereof, including the cathode ray tube, to be free from defects in material and workmanship under normal use and service. Its obligation, under this warranty shall be limited to repairing or replacing any part of said television receiver which proves thus defective within ONLY one year from the date of purchase by the original purchaser. This warranty will only apply if this television receiver is registered with the manufacturer within ten days of purchase. All defective parts must be returned to us. This warranty does not apply to breakage of any kind due to misuse or alteration of set.

INSTALLATION

Repairs or adjustments will not be made on any set that has not been serviced by a licensed television repairman!

Do not order television sets unless you have the proper television servicemen in your community.

We have sold a good many of these sets and have had satisfactory results when they have been handled and installed by an experienced television serviceman.

For PERFECT PICTURE RECEPTION all television sets must be adjusted to surrounding conditions and therefore MUST BE INSTALLED AND SERVICED BY A REPUTABLE TELEVISION SERVICE. DO NOT ALLOW ANY INEXPERIENCED PERSON TO MAKE ANY ADJUSTMENTS, AS THESE SETS ARE SO DELICATELY ASSEMBLED THAT WITHOUT KNOWLEDGE OF ITS MECHANISM THEY CAN BE BADLY DAMAGED and WE WILL NOT BE RESPONSIBLE!

Mitchell LIVING IMAGE Television

with the 16-inch "Studio-View" picture tube

Now you can enjoy "Living Image" Television, exactly as telecast . . . as real as life itself on the new 16-inch rectangular screen. You see all the picture with "Studio View" realism—rich in contrast, crisp and sharp—kept absolutely steady by the automatic Synchro-Hold circuit feature. Automatic Gain Control assures photographic realism under all viewing conditions. Tuning is simplicity itself with the 12-position All-Channel Selector that brings both picture and sound in right "on the beam"—automatically synchronized. The built-in Magna-Tenna does away with awkward antenna installations in most locations. And for your complete enjoyment, the Mitchell "Living Image" picture is matched by a quality of tone so realistic, so true, you'll feel you're hearing as well as seeing the program right in the studio. Your Mitchell Television receiver is housed in a custom-grade cabinet, using only the finest woods. Available in Blonde or Mahogany finish—hand-rubbed to smooth, lustrous perfection.

Synchro-Hold Tuning. Automatically "locks in" the picture—keeps it bright, clear, steady. Screens out interference so picture stays movie-clear on all programs.

Easy Beam Tuning. Single knob brings in sound and picture automatically synchronized. Fine adjustments, seldom necessary, are on front panel. Tunes all U.S. TV channels.

Pin-Point Focus. Special circuit feature automatically builds up a sharp, strong, full-contrast picture. 16" tube is virtually flat, shows no distortion.

Built-In Magna-Tenna. Latest type built-in antenna, fixed for maximum signal pickup. No adjustments necessary. Outside antenna can be attached for fringe area use.

Automatic Gain Control. Keeps picture contrast and clarity constant—holds sound volume uniform. Automatically bans flutter or "tearing" caused by electrical interference.

Superb FM Tone. Exceptional high fidelity, static-free FM. Powerful Alnico-5 PM dynamic speaker in a large baffle area reproduces every note with crystal clarity.

Specifications. Advanced Television circuit design. Features 16-inch Rectangular Dark-Faced Picture Tube. Includes built-in Magna-Tenna, Synchro-Hold Picture Stabilizer, continuous type All-Channel Station Selector, Automatic Gain Control. Alnico-5 PM Dynamic speaker, connection for attaching automatic record changer or phonograph player. Chassis incorporates twenty tubes, including Kinescope and two rectifiers. Console measures 36" high, 22" wide, 19¾" deep. Shipping weight, 110 lbs.

MAHOGANY	BLONDE
Retail $$56.94	Retail $$56.04
(Tax Included)	(Tax Included)
No. 3A66.	No. 3A67.
Each	Each
238.86	**238.86**
(Tax Included)	(Tax Included)

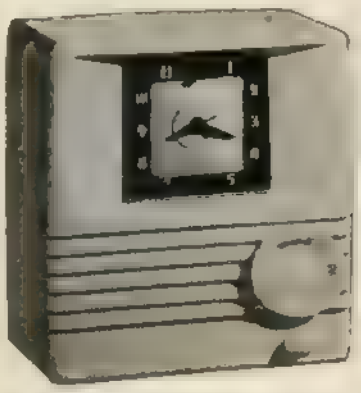
Mitchell TV
brings you
ALL THE ACTION
sharp, clear, real as life!

Mitchell RADIO SPECIALTIES

Tone Alarm, Lumitone and Lullaby radios may be assorted to obtain quantity prices.

Lumitone Table Lamp-Radio. An unusual combination of fine lighting and superb radio entertainment in one unit. Lumitone is a beautifully styled table lamp, molded in smooth cream-colored plastic, with a powerful, clear-toned radio mounted in the base. Lamp provides three-way lighting—50-100-150 watt—with opal plastic bowl for glarefree reading comfort. Shade is top quality Chinese taffeta. The radio is a sensitive superheterodyne with built-in Air Magnet no aerial or ground needed. Covers all 540 kc AM band, reproducing all standard broadcast programs with clear, life-like tone through advanced design PM dynamic speaker. Perfect for home or office. Operates on 110-120 volt 60 cycle A.C. or D.C. Overall height 21¾" shade diameter 16". Shipping weight 13 lbs. Retail 45.95.

No. 3A47. Each 32.17



Tone Alarm Electric Alarm Clock-Radio. Wake up to music with the Mitchell "Tone Alarm"—the best world of a luxurious electric alarm clock radio. Just set the alarm before retiring—"Tone Alarm" wakes you at exactly the right time with a gradual crescendo of your favorite program. If you doze after the automatic buzzer goes off, another "Tone Alarm" sounds in 10 minutes. Also has outlet for electric appliances—shuts off sunlamps, coffee makers etc.—It's the perfect self-timer for baking. It uses Genuine Telechron clock has sweep second hand, large clear numerals. "Tone Alarm" is a superheterodyne with built-in Air Magnet for perfect tone. Tunes full 540-1605 kc AM band. It can be plugged in to A.C. or D.C. no aerial or ground needed. Easy-to-read dial for quick tuning. Latest type PM dynamic speaker. "Tone Alarm" is a lifetime package of pleasure and convenience—ideal for any room in the home. In choice of smooth Ivory or figured Mahogany plastic. Size 9¾" high, 8½" wide, 5" deep. For 105-125 volt 60 cycle A.C. or D.C. operation. Shipping weight, 7 lbs. Retail 39.95.

No. 3A64. Mahogany. **No. 3A65.** Ivory.
Lots of 4 or more, each 26.61
Each 27.97

***Lullaby* — The Famous Bed Lamp-Radio.** Here's the smartest bedtime story you ever told! Read under perfect light that's kind to your eyes — while your favorite radio program plays softly in your ears. The Lullaby, styled like a dream in gleaming plastic, combines a true-toned quality radio with a scientifically designed reading light. The easy-to-tune radio features an advanced superheterodyne circuit, with built-in "Air Magnet" that eliminates aerial and ground wires. A powerful PM dynamic speaker assures clear, lifelike tone. Covers complete AM broadcast band—540-1605 kc. The bed lamp consists of a powerful tubular type lamp and frosted curved arm for maximum glareless light. Lamp and radio operate separately or together, as desired. Adjustable brackets fit any bed. In choice of sleek Ivory or deep-toned Walnut. Size 9" long, 5¾" wide, 7" deep. For 110-120 volt 40-60 cycle A.C. or D.C. Shipping weight, 6 lbs. Retail 34.95.

No. 3A45. Walnut **No. 3A46.** Ivory
Lots of 4 or more, each 23.28
Each 24.47

"NEPTUNE QUALITY"

Lovely, subdued lustre, simulated pearls of medium size graduation. Presented in velvet-lined shell case. Single Strand, 17". Sterling filigree clasp.

212Z231T—Retail $16.00.....EACH **$4.00**

Double Strand, 16" and 17". Rhinestone clasp.

212Z232T—Retail $15.00.....EACH $6.00

Triple Strand, 16", 17", and 18". Rhinestone clasp.

212Z233T—Retail $20.00.....EACH $8.00

"NORTH STAR" QUALITY

Lustrous quality, graduated pearls. Rhinestone clasps. In velvet-lined gift case

Single Strand, 17".

212Z234T—Retail $7.50...EACH **$3.25**

Double Strand, 16" and 17".

212Z235T—Retail $11.25.....EACH $5.00

Triple Strand, 16", 17", and 18".

212Z236T—Retail $15.00.....EACH $6.75

"ZENITH QUALITY"

Hand polished pearls, in Brocade covered case. Single Strand, 17", hand knotted. Sterling clasp.

212Z231T—

Retail $15.00.....EACH **$6.00**

Double Strand, 16" and 17", unknotted. Rhinestone clasp.

212Z232T—Retail $22.50.....EACH $8.00

Triple Strand, 16", 17", and 18". Rhinestone clasp.

212Z233T—Retail $30.00.....EACH $12.00

Pear Shaped Pearl Drop Earrings. Sterling screw backs. Pierceless. Boxed. Retail $4.00.

237Z871T—

PER PAIR **$2.00**

As above Round Pearl Drop. Retail $4.00.

237Z872T—

....PER PAIR $2.00

Pearl Button Earrings. Sterling silver screw backs. Pierceless. Small, medium, and large sizes. Boxed. Retail $2.00.

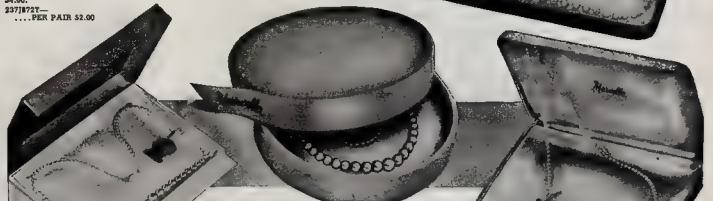
237Z870T

PER PAIR **$1.00**

"FABULOUS QUALITY"

An achievement in the art of creating simulated pearls. So beautiful that they have been mistaken for cultured pearl. Available in single strand only, 17". Hand knotted, 10K White Gold clasp. In Light Blue velvet gift case. Retail $25.00.

212Z335T.....EACH **$10.88**



"MINERVA QUALITY"

Medium size graduation. Sterling filigree clasp. Ivory and Gold gift box. Single Strand, 17".

212Z241T. Retail $3.00. ...EACH **$1.50**

Double Strand, 16" and 17".

212Z242T—Retail $5.00.....EACH $2.50

Triple Strand, 16", 17", and 18".

212Z243T—Retail $7.50.....EACH $3.75

"VENUS QUALITY"

Medium size graduated pearls. Sterling silver filigree clasp. Round, Blue satin lined gift box. Single Strand, 17".

212Z228T—Retail $5.00.....EACH **$2.50**

Double Strand, 16" and 17".

212Z229T—Retail $8.50.....EACH $4.25

Triple Strand, 16", 17", and 18".

212Z230T—Retail $11.25.....EACH $5.50

All Marvella pearls shown on these three pages are simulated. Their lustre and beauty prompts the Marvella slogan "The Most Beautiful Pearls Made by Man" . . . Each item in the Marvella line is elaborately gift boxed. Dealer Note: Mark orders "For Resale," otherwise Federal Excise Tax will be added to invoice.

"MISS MARVELLA" QUALITY

Small, graduated simulated pearls for the Important Debutante market. Rhinestone clasps. Brocade covered gift box. Single Strand, 17".

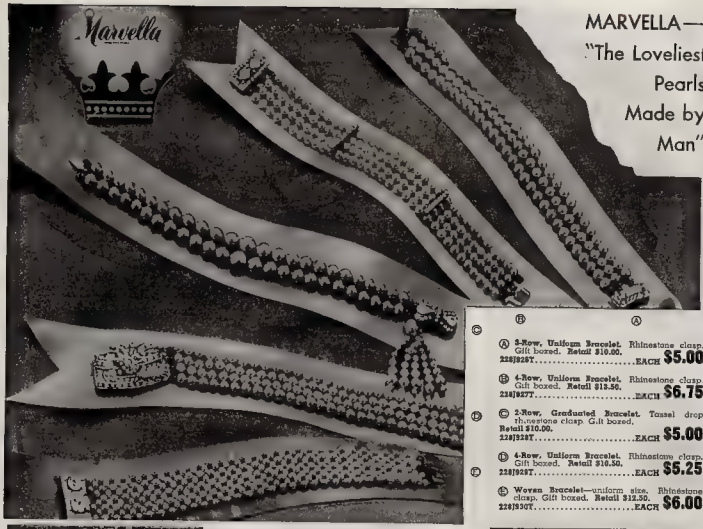
212Z244T—Retail $8.50.....EACH **$3.75**

Double Strand.

212Z245T—Retail $12.50.....EACH $5.50

Triple Strand.

212Z246T—Retail $16.50.....EACH $7.50



MARVELLA—
"The Loveliest Pearls Made by Man"

Ⓑ Ⓐ Ⓒ

Ⓐ **3-Row, Uniform Bracelet.** Rhinestone clasp. Gift boxed. **Retail $10.00.**
228|928T.....EACH **$5.00**

Ⓑ **4-Row, Uniform Bracelet.** Rhinestone clasp. Gift boxed. **Retail $13.50.**
228|927T.....EACH **$6.75**

Ⓒ **2-Row, Graduated Bracelet.** Tassel drop rhinestone clasp. Gift boxed. **Retail $10.00.**
228|926T.....EACH **$5.00**

Ⓓ **4-Row, Uniform Bracelet.** Rhinestone clasp. Gift boxed. **Retail $10.50.**
228|925T.....EACH **$5.25**

Ⓔ **Woven Bracelet**—uniform size. Rhinestone clasp. Gift boxed. **Retail $12.50.**
228|930T.....EACH **$6.00**

MARVELLA CHOKERS

Ⓕ

"Snug-Fit" Dog Collar (illustrated above). Flexible, no clasp, conforms to any neck size. Gift boxed. 2-row, large graduation. **Retail $5.00.**
212|329T.....EACH **$2.50**

2-Row, Uniform Graduation. Retail $7.50.
212|330T.....EACH **$3.75**

Ⓖ **2-Row, Uniform Dog Collar.** Adjustable rhinestone clasp. Necklace can be adjusted from 13¼" to 13½". Gift boxed. **Retail $11.25.**
212|296T.....EACH **$5.25**

As above: 3-Row Graduated (not shown). Same clasp. Gift boxed. **Retail $13.75.**
212|285T.....EACH **$5.85**

Ⓗ **3-Row, Medium Graduation Necklace.** Rhinestone clasp. Gift boxed **Retail $15.00.**
212|281T.....EACH **$7.50**

As above: 4-Row. Retail $12.00.
212|332T.....EACH **$6.00**

Ⓘ **4-Row Braided Choker.** Rhinestone clasp. Gift boxed. **Retail $15.00.**
212|333T.....EACH **$7.50**

Ⓙ **2-Row Choker.** First strand pearl, second strand gunmetal. Rhinestone clasp. Gift boxed. **Retail $10.00.**
212|334.....EACH **$5.00**

ALL PRICES WHOLESALE NET, LESS 2% DISCOUNT FOR CASH

Prices do not include Federal Excise Tax

Pearl Necklace and Earring Ensemble. Single strand, hand knotted, 18" necklace. Matching ball drop, pierceless earrings. Gift boxed. **Retail $10.00.**

2492284.....PER SET **$5.00**

Pearl and Rhinestone Necklace and Earring Ensemble. Single strand, 15", uniform pearl knotted necklace with exquisite rhinestone drop. Matching rhinestone drop, pierceless earrings. Gift boxed. **Retail $15.00.**

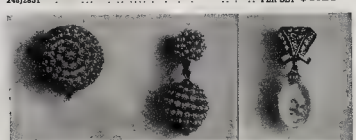
2492296T.....PER SET **$7.50**

Pearl Necklace and Earring Ensemble. Rhinestone and pearl shape pearl drop on 15" necklace. Matching rhinestone and pearl drop, pierceless earrings. Gift boxed. **Retail $10.50.**

2492285T.....PER SET **$5.25**

Two-Strand Choker and Earring Ensemble. A beautifully matched set of uniform Baroque pearls. Length of choker 15½" and 16". Matching Baroque pearl drop, pierceless earrings. Gift boxed. **Retail $16.50.**

2492297T.....PER SET **$8.25**



Seed Pearl Button Earrings. Pierceless. Gift boxed. **Retail $5.00.**

2371873T—
PER PAIR **$2.50**

Seed Pearl Drop Earrings. Pierceless. Gift boxed. **Retail $5.50.**

2371874T—
PER PAIR **$2.75**

Baroque Pearl Drop Earrings. Rhinestone top. Pierceless. Gift boxed. **Retail $6.00.**

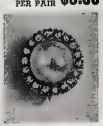
2371875T—
PER PAIR **$3.00**

Rhinestone and Pearl Earrings. Pierceless. Gift boxed. **Retail $7.50.**

2371877T.PER PAIR **$3.75**

Baroque Pearl and Rhinestone Earrings. Pierceless. Gift boxed. **Retail $7.00.**

2371876T—
PER PAIR **$3.50**



KIDDIE ENSEMBLE

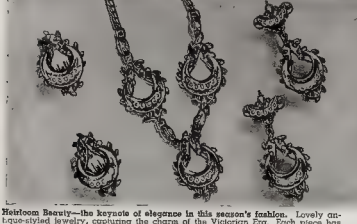
A darling set of single strand necklace and matching coil bracelet. **Necklace, of small simulated pearls, 12½" long.** Attractive, plastic gift box. **Retail $5.00.**

2492288T.....PER SET **$2.50**

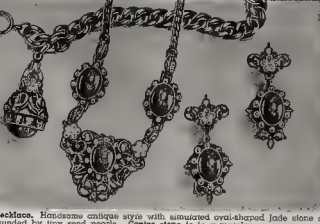
Faithful Reproductions of Lovely Antique Jewelry

Heirloom Necklace. Large baroque center pearl in a circle of seed pearls set in massive mounting. Ornate chain with two pearl clusters. Length 16".
2111211T—Retail $5.75 ..... EACH **$1.88**
Matching Pendant Eardrops. Pierceless.
2371933T—Retail $3.00 ..... PER PAIR **$1.50**
Matching Ear Clips. (Not shown.)
2371932T—Retail $2.00 ..... PER PAIR **$1.00**
Matching Bracelet. Heavy link chain. Both sides of drop have large baroque pearl in massive mounting with double row of seed pearls. Length 7½". **$1.50**
2381932T—Retail $3.00 ..... EACH

Pendant and Chain. Massive heraldic crest. Maroon enameled maltese cross with cluster of seed pearls in center. Heavy 16" neckchain.
2111208T—Retail $3.00 ..... EACH **$1.50**
Matching Pendant Eardrops. Pierceless.
2371928T—Retail $3.00 ..... PER PAIR **$1.50**
Matching Ear Clips. (Not shown.)
2371929T—Retail $2.70 ..... PER PAIR **$1.35**
Matching Bracelet. Flat curb chain with heraldic drop. Length 7½". **$1.50**
2381898—Retail $3.00 ..... EACH
Matching Pin. (Not shown.) Same as drop with safety catch. **$1.00**
2381897—Retail $2.00 ..... EACH

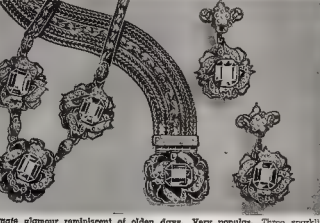


Heirloom Beauty—the keynote of elegance in this season's fashion. Lovely antique-styled jewelry, capturing the charm of the Victorian Era. Each piece has outstanding beauty, whether worn alone or in a set.
Necklace. Exact copy of a very fine antique. Three crescent shaped ornaments, artistically arranged. Applied leaves and seed pearls. Flat curb chain. Length 16".
2111209T Retail $3.75 ..... EACH **$1.88**
Matching Pendant Eardrops. Pierceless.
2371926T—Retail $3.00 ..... PER PAIR **$1.50**
Matching Ear Clips.
2371927T—Retail $1.90 ..... PER PAIR **95c**



Necklace. Handsome antique style with simulated oval-shaped jade stone surrounded by tiny seed pearls. **Center stone is in a massive antique filigree setting.** Flat curb chain. Length 16".
2111213T—Retail $4.50 ..... EACH **$2.25**
Matching Pendant Eardrops. Pierceless.
2371924T—Retail $3.00 ..... PER PAIR **$1.50**
Matching Ear Clips. (Not shown.)
2371925T—Retail $2.70 ..... PER PAIR **$1.35**
Matching Bracelet. Heavy link chain with old-fashioned style watch charm drop. Length 7½". **$1.00**
2281896T—Retail $2.00 ..... EACH

Old-fashioned simplicity is the keynote in this lovely necklace of antique design. Three festival chains hanging from center ornament give a delightful, dainty touch. Fancy bar link neckchain. Length 15½".
2111210T—Retail $3.75 ..... EACH **$1.88**
Matching Ear Clips. Complete a very lovely ensemble.
2371931T—Retail $1.80 ..... PER PAIR **90c**
PENDANT EARRINGS. Fashionable earrings in Gold color. Can be worn with any costume. True smartness in design.
2371930T—Retail $1.80 ..... PER PAIR **90c**



Ornate glamour reminiscent of olden days. Very popular. Three sparkling emerald cut stones in heavy filigree mountings with tiny seed pearls. 18" chain. Aqua or Emerald color stones.
2111212T—Retail $5.60 ..... EACH **$2.80**
2371922T Matching Pendant Earrings. Retail $5.00 ..... PER PAIR $2.50
Matching Ear Clips. (Not shown.) Clips consist of single, lovely drop. **$1.40**
2371923T—Retail $2.80 ..... PER PAIR
Matching Bracelet. Five strands of flat chain with ornate clasp.
2281897T—Length 6½". Retail $5.50 ..... EACH **$2.80**

ILLUSTRATIONS ½ ACTUAL SIZE. ALL STONES AND PEARLS SIMULATED.

Mitchell LIVING IMAGE 17" Television

Mahogany Finish
ZT17M *(47772)
Retail Price $330.04

Blonde Finish
ZT17B *(49290)
Retail Price $340.63

(Prices include Federal Tax and 1 Year Parts Warranty)

WITH THE "Studio View" RECTANGULAR PICTURE TUBE

NOW you can enjoy "*Living Image*" Television, exactly as telecast . . . as real as life itself on a full 17-inch filter-face rectangular screen. You see all the picture with "studio view" realism—rich in contrast, detailed, sharp—kept absolutely steady by the automatic Synchro-Hold circuit feature. Automatic Gain Control assures photographic realism under all viewing conditions. Tuning is simplicity itself with the 12-position All-Channel Selector that brings both picture and sound in right "on the beam"—automatically synchronized. The built-in Magna-Tenna does away with awkward antenna installations in most locations. And for your complete enjoyment, the MITCHELL "*Living Image*" picture is matched by a quality of tone so realistic, so true, you'll feel you're hearing as well as seeing the program right in the studio. Your Mitchell Television receiver is housed in a custom-grade cabinet, using only the finest woods. Available in Blonde or Mahogany finish—hand-rubbed to smooth, lustrous perfection.

SYNCHRO-HOLD TUNING

Automatically "locks in" the picture—keeps it bright, clear, steady. Screens out interference so picture stays movie-clear on all programs.

BUILT-IN MAGNA-TENNA

Latest type built-in antenna, fixed for maximum signal pickup. *No* adjustments necessary. Outside antenna can be attached for fringe area use.

EASY BEAM TUNING

Single knob brings in sound and picture *automatically synchronized*. Fine adjustments, seldom necessary, are on front panel. Tunes all TV channels.

AUTOMATIC GAIN CONTROL

Keeps picture contrast and clarity constant—holds sound volume uniform. Automatically bans flutter or "tearing" caused by electrical interference.

PIN-POINT FOCUS

Special circuit feature automatically builds up a sharp, strong, full-contrast picture. Glare-free 17" tube is virtually flat, shows no distortion.

SUPERB FM TONE

Exceptional high fidelity, static-free FM. Powerful Alnico PM dynamic speaker in a large baffle area reproduces every note with crystal clarity.

SPECIFICATIONS

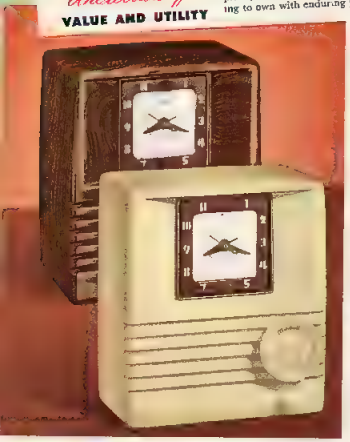
Advanced Television circuit design. Features 17-inch Rectangular Dark-Faced Picture Tube. Includes built-in Magna Tenna. Synchro-Hold Picture Stabilizer. Instantaneous type All-Channel Station Selector. Automatic Gain Control. Alnico PM Dynamic speaker connection for attaching automatic record changer or phonograph player. Chassis incorporates twenty tubes, including Kinescope and two rectifiers. Console measures 39" high, 22" wide, 19½" deep. For 115-120 volt, 60 cycle A.C. only. Shpg. wt., 1,0 lbs.

Mitchell TV
brings you
ALL THE ACTION
sharp, clear, real as life!

Mitchell BEST-SELLING RADIOS AND TELEVISION

Superb for **SOUND · SIGHT · STYLE**
Unexcelled for **VALUE AND UTILITY**

QUALITY is the MITCHELL ideal. Built in one of America's finest radio plants, to peak standards of skilled engineering and fine craftsmanship, each MITCHELL Radio and Television model is a *quality* product of the highest character. In each, you get the most for your money in completely satisfying home entertainment . . . styling to own with enduring pride . . . tonal excellence that is the mark of superb audio design . . . picture perfection unexcelled in Television today . . . dependability of performance you can count on to provide the finest entertainment throughout the years. Whatever model you select, it is backed by MITCHELL's long-established and solid reputation for the highest quality and for maximum value.



with genuine TELECHRON Electric Clock

MITCHELL *Tone Alarm*

ELECTRIC ALARM CLOCK-RADIO

Wake up to sweet music with the amazing MITCHELL "*Tone Alarm*"! Just set the alarm before retiring—"*Tone Alarm*" wakes you at exactly the right time with the gay music of your favorite morning program. If you doze again, automatic buzzer goes into action. Also has convenience outlet for turning on electric appliances. The genuine Telechron clock has sweep-second hand, large clear numerals. 5-tube superhet radio with lifelike, "big-set" performance tunes full 540-1620 kc AM band. Has sensitive built-in "Air Magnet"—no aerial or ground needed. Easy-to-tune dial. Latest PM dynamic speaker. "*Tone Alarm*" is a genuine package of pleasure and convenience—ideal for any room. In choice of Ivory or Walnut plastic. Size: 9¾" high, 8½" wide, 5" deep. For 110-125 volt 60 cycle A.C. Shipping weight, 7 lbs.

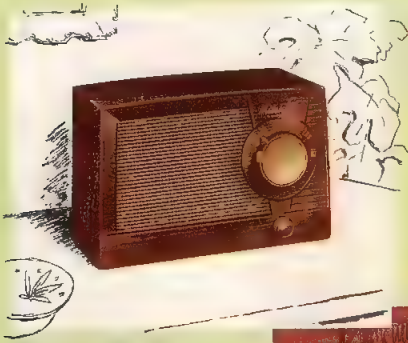
Walnut Finish	Ivory Finish
ZP1268 *(3102)	ZP1267 *(5394)
Retail Price $34.95	Retail Price $39.95

MITCHELL *Lullaby*

THE FAMOUS BED LAMP-RADIO

Here's the smartest bedtime story every told. Read under perfect light that's kind to your eyes—while your favorite radio program plays softly in your ears. The *Lullaby*, styled like a dream in gleaming plastic, combines a true-toned quality radio with a scientifically designed reading light. The easy-to-tune radio is an advanced 5-tube superhet with built-in "Air Magnet" aerial. A powerful PM dynamic speaker assures clear, undistorted tone. Covers complete AM broadcast band—540-1620 kc. The bed lamp consists of a powerful tubular type lamp and frosted curved lens for maximum glareless light. Lamp and radio operate separately or together, as desired. Adjustable brackets fit any bed. In choice of Ivory or Walnut. Size: 9½" long, 5¼" wide, 7" deep. For 110-120 volt, 50-60 cycle A.C., or D.C. Shipping weight, 6 lbs.

Walnut Finish	Ivory Finish
ZP1250 *(4372)	ZP1251 *(4894)
Retail Price $29.95	Retail Price $34.95



Mitchell

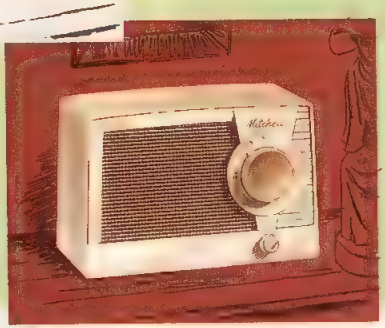
BEST BUYS IN RADIO

You'll take the keenest pride of possession in the rare beauty of this original MITCHELL design. You'll get a listening-lift and everlasting pleasure from the *Nocturne's* tonal reality, with its rich, full-bodied trueness. And you'll marvel at the tuning ease of this sensitive performer, its surprising power, its complete convenience and wonderful AC-DC versatility. And finally you'll be pleased as punch with the sensible price of this refreshingly different, infinitely smart MITCHELL table model.

THE *Nocturne*

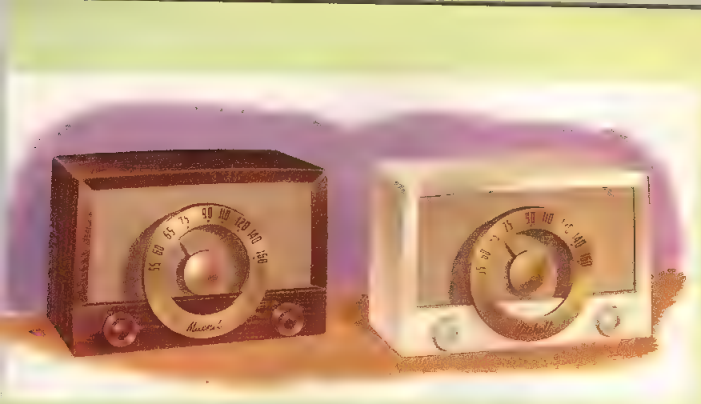
5 TUBE TABLE MODEL RADIO

Walnut Finish	Ivory Finish
ZP1252 *(3642)	ZP1253 (4194)
Retail Price $24.95	Retail Price $29.95



Specifications: Advanced AC-DC Superhet. Tunes all AM broadcast programs, 540-1620 kc. Features built-in "Air Magnet" loop—no aerial or ground needed, full-vision plastic dial for easy tuning, richly-toned Alnico PM dynamic speaker, automatic volume control. 5 tubes including: 12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT 35Z5GT rectifier. Cabinet is distinctively styled, plastic-molded in refreshing new tones. Available in Ivory or Walnut. Size: 8½" wide, 5¼" high, 4½" deep. For 110-120 volt, 50-60 cycle A.C., or D.C. Shipping weight, 5½ lbs.

FOR AMERICA-ON-THE-GO . . . .



DECORATOR-STYLING • BRILLIANT TONE • LONG RANGE POWER

Strictly contemporary . . . decidedly sophisticated . . . infinitely de luxe in every detail of design and performance—that's the MITCHELL *Madrigal*. Here's beauty you can see at first glance. Here's performance you'll fall in love with right from the first note you hear. The accent's on bell-like tone quality, backed by a world of reserve power and sensitivity that makes every program a delightful listening experience. Here's the radio for any room in your home, with the truly fine quality you'd expect of your "main" set. Yes, here's spirited beauty you can see, tonal beauty you can hear—more than you've ever dreamed of for less than you'd guess . . .

THE *Madrigal*

6 TUBE TABLE MODEL RADIO

Walnut Finish	Ivory Finish
ZP1254 *(5102)	ZP1255 *(5594)
Retail Price $34.95	Retail Price $39.95

Specifications: Powerful AC-DC Superhet. Tunes 540-1620 kc AM band for complete standard broadcast reception. Includes built-in "Air Magnet" loop—no aerial or ground required. Powerful Alnico PM dynamic speaker develops full-bodied, lifelike tone. Unique easy-to-tune "Magna-Vision" dial. Includes automatic volume control. 6 tubes including 12AJ6, 12BA6, 12AV6, 50C5, 35Z5GT rectifier. Beautifully housed in a striking plastic-molded cabinet. Available in Ivory or Walnut. Size 10½" wide, 7" high, 5¼" deep. For 110-120 volt, 50-60 cycle A.C. or D.C. Shipping weight, 6 lbs.

. . . *Mitchell* 3-WAY PERSONAL *portable radio*

Maroon Finish
ZP1256 *(5594)
Retail Price $39.95

Specifications: A superior 3-Way personal portable Superhet. Operates from self-contained batteries, from 110 volts A. C., or from 110 volts D. C. Tunes 540-1629 kc full standard broadcast band. Has built-in "Air Magnet"—no aerial or ground needed. Powerful Alnico PM dynamic speaker, automatic volume control, full-vision side-looking dial. Tubes 1R5, 1T4, 1S5, 3V4, with conexiam rectifier for instantaneous playing on AC, DC or batteries. Uses readily available 4½ volt "A" and 90 volt "B" batteries. Presented in a gem of a carrying case, of smart maroon plastic, with practical carrying handle. Size: Only 9¼" wide, 5¾" high, 4¼" deep. Shipping weight (less batteries) 6 lbs.

You'll have the whole world of radio enjoyment always at your fingertips with the MITCHELL Portable. This exciting new radio leads a happy triple-life—carries and plays anywhere—from AC outlet, from DC outlet or from self-contained batteries. Everything's snugly built-in; it's lightweight and compact, yet built to take punishment and always keep its bright, smart look. Here is your perfect all-around radio companion, whether you carry it along for fun in the sun or play it at home. At home or abroad, here's the last word in true-toned, powerful reception—the preferred personal portable for America-on-the-Go . . .

IN EVERY PORT

OWENS

FLAGSHIPS

Boating's Finest Buy...

--From the Atlantic Coast to the far Pacific --on lakes and rivers -- Owens Flagships are favorites among yachtsmen as boating's finest buy.

Ruggedness of construction, seaworthiness, performance, and value put Owens out ahead. Compare all the advantages of the Flagships—then inspect an Owens at your nearest dealer. Plan now to own an Owens. Write for our 1951 catalog.

On display at the Motor Boat Show, the Owens 26 Deluxe Sedan and the Owens 34 for '51 Custom Deck Cabin Cruiser, January 12th-20th, Grand Central Palace, New York City.

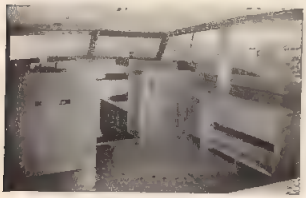
L-S-V-

..LIVABILITY SEAWORTHINESS VALUE

OWENS YACHT COMPANY, INC., 11 Owens Avenue, Baltimore 22, Maryland

THE OWENS 34 FOR '51

THE 1951 OWENS '34' CUSTOM DECK CABIN CRUISER a two-cab'n boat that sleeps five to seven. Powered with single or twin screw Flagship Marine engines of 100 to 118 H.P. Speed range from 16 to 25 m.p.h.



Interior of the main cabin looking forward on the Owens 34

FUNCTIONAL REQUIREMENTS for living on board are a basic part of all Owens plans. Extra wide berths with inner spring mattresses provide the comforts of home. Unusually large storage space in all cabins includes linen closet, full length clothes locker, and overhead lockers. In the galley twin sinks, extra large ice box, fluted glass dish cabinets, and metal galley top give the yachtsman a modern kitchen afloat.

FOR GRACIOUS LIVING AFLOAT all Owens cruisers have large floor cabin space with full headroom. Full view windows and opening windshield give all the light and ventilation of your living room at home. Venetian blinds and screens assure ventilation with privacy. Careful selection of materials and equipment means modern and comfortable interiors. The large deep cockpit with cushioned transom (big enough for a bed) is dry on the wettest of days and safe for children or mascots.

The Owens two-cabin cruiser has greater deck space than any boat in its class; a real bonus in livability, privacy and comfort. The Owens Flagship is the ideal family boat and your summer home for years to come. Other models on this hull are a Sport Cruiser and Flying Bridge Express Cruiser. Inspect the Owens Flagships at your nearest dealer.

OWENS FLAGSHIPS *Gracious*

THE OWENS 26 SEDAN

THE OWENS 26 DELUXE SEDAN, a real boat for the size. Sleeps four with large galley and all facilities. Powered with single or twin screw Flagship Marine engines 100 to 1.8 H.P. Speed range 17 to 28 m.p.h. The lowest price cruiser with big boat comforts.

Interior of the Owens 26 with Owens helmseat made into a double bed

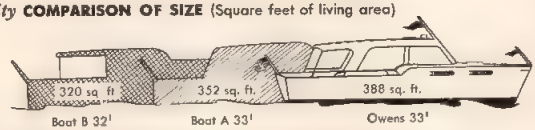
CONSTRUCTION—Owens Flagships are built with a craftsmanship of over 25 years in the boating industry. The best wood, metal and equipment is used throughout. All hull framing and planking is preservative-dipped. this means longer life for each Flagship. All hulls are fastened with Ever-Dur bronze screws, connections and bolts. Exclusive Owens features are—Goodrich rubber cutless stern bearings, rubber insulated controls, brass and chrome plated hardware, individually mounted engine room control instruments, monel gasoline tanks, monel propeller shafts, etc. Owens Flagships are built to rigid specifications for long life on lakes, rivers, or the open sea.

SEAWORTHINESS—is the ability to take heavy weather. Seakindliness is the ability to take heavy weather easily and gracefully. Owens Flagships have always lived up to these requirements. The new 1951 Flagships are a further improvement in seaworthiness with sharper waterline, more flare, lowered center of gravity, and more freeboard. This means less rolling, less pitching, and a dryer boat in open water. Compare these Owens "34" qualities in relation to other cruisers in its class. See detailed comparison chart on the next page.

Living Afloat

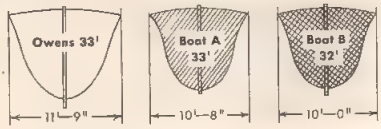
you can't beat Owens for **L-S-V**

***L**ivability* **COMPARISON OF SIZE** (Square feet of living area)



***S**eaworthiness* **KEEL DEPTH** for easier handling and greater stability:

Beam Dimensions



KEEL DEPTH

OWENS 33'	—2'—8"
Boat A	—2'—4"
Boat B	—2'—7"

Modern Round Bottom Hull Design makes a better sea boat non-pounding, level-riding, more comfortable and drier.
OWENS 33' .... YES Boat A 33' .... NO Boat B 32' ..... YES

Sturdy framing for extra strength
OWENS 33' 1½" x 1½" Boat A Sawed-out frames Boat B 1" x 1½"

***V**alue* **Extra Features at no extra cost:**

	OWENS 33'	Boat A 33'	Boat B 32'
Twin sinks in galley	Yes	No	No
Bronze Hull Fastenings	Yes	No	No
Monel Propeller Shaft	Yes	No	No
Monel Gas Tank	Yes	No	No
Rubbing strip on keel	Yes	No	No
Hull parts immersed in fungicide creosote-copper naphthanate Stem	Yes	No	No
Keel	Yes	No	No
skeg, floor frames	Yes	No	No
shaft logs stringers	Yes	No	No
engine beds	Yes	No	No

YET COMPARE THE PRICES! OWENS **$10,350** COMPLETE **$11,500** + EXTRAS **$14,500** + EXTRAS

All prices and comparisons are for twin-screw, reduction drive, 100 HP engine boat

Dealers—A limited number of franchises are now available to Distributors and Dealers. Write for our latest Dealer Bulletin NEWS WAVES —which explains the liberal Owens franchise plan, or visit us at your earliest opportunity.

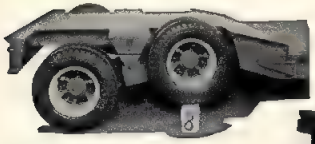
OWENS YACHT COMPANY, INC.
11 Owens Avenue
Baltimore 22, Maryland

Please send me your new 1951 catalog describing the Owens Flagship Line.

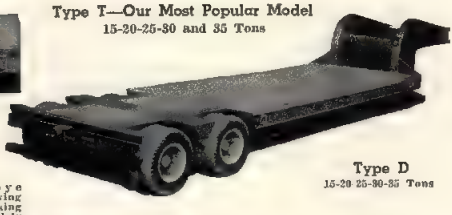
NAME .....
ADDRESS .....
CITY ..... STATE .....

The Owens Yacht Company factory on the Chesapeake Bay houses administrative and engineering offices for Owens and Flagship Marine Engines. The Owens family has built cabin cruisers for over 25 years, combining skilled craftsmanship with straight line production methods

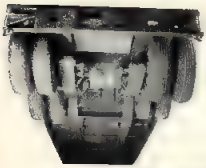
8 BASIC TYPES OF ROGERS TRAILERS



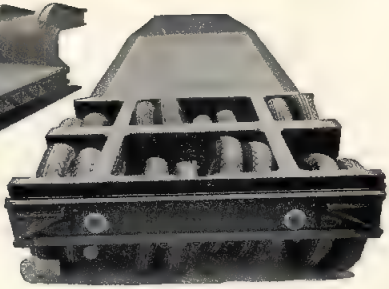
Type T—Our Most Popular Model
15-20-25-30 and 35 Tons



Type D
15-20 25-30-35 Tons

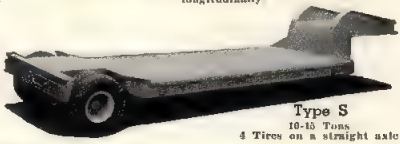


Worm's eye view showing the "walking beams", widely spaced bearings and heavy frame construction.



Rear unit mounting sixteen tires rocks laterally and longitudinally

Rear wheels are removed for loading. Frame can be skidded under "dead" equipment for easy loading.



Type S
10-15 Tons
4 Tires on a straight axle

Girder Type Trailers
4 and 8 Wheels. 40-75-90 Tons.

Write Regarding Any Type of Interest

We'll develop drawings of a trailer "tailored" to conform to your ideas, adapted particularly to your tractor and efficiently designed to your specific kind of hauling.

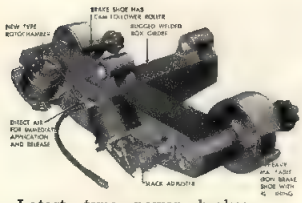
Type H
15-20 25-30 Tons
8 tires on 2 laterally rocking axles

Most trailers are furnished with this flat type of goose-neck if desired.

See Additional Types On Second Page Following

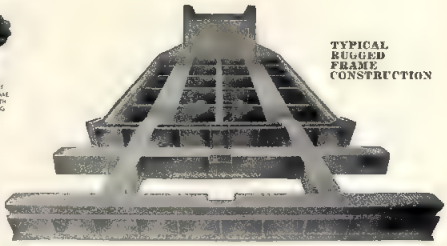
ROGERS SUPERIOR DESIGN

Evolved Through 36 Years of Experience



Latest type power brakes furnished as standard equipment.

Advanced design with heavy malleable shoes fitted with cam follower rollers, "S" type equalizing cams, and ¾ inch molded brake block lining with slack adjuster on each wheel.

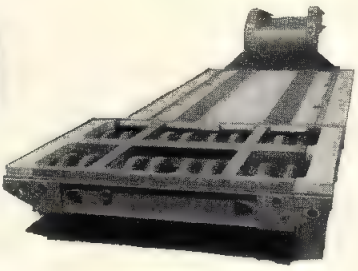


TYPICAL RUGGED FRAME CONSTRUCTION

Rugged frame design and construction are fundamental features of all Rogers trailers.

Scientific design and the use of alloy steel provide ample strength and desirable lightness of weight.

Rogers Trailers may be equipped with swinging side brackets and auxiliary timbers to quickly expand an 8 foot trailer to 10 feet for hauling wide equipment.

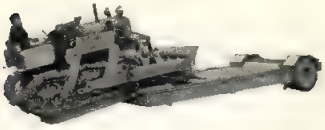


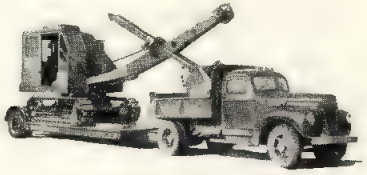
Comparative ease of tire changing is one of many outstanding features of Rogers design.

ADDITIONAL TYPES OF ROGERS TRAILERS

The Rogers Tagalong Front Loader

10, 15 and 20 Tons Capacities





Now, you can haul light and medium shovels, cranes, bulldozers, etc., to and from the job with a Rogers Tagalong and your dump truck will serve as a tractor

The new feature appreciated by all, is the hydraulic ram which controls and cushions the deck movement when loading or unloading heavy equipment.

Rogers Tilt-Deck Trailers

5-7-9-11-14 Tons

ROGERS POLE TRAILERS

Rogers Pole Type Trailer, used to haul long loads involving unusual bulk or weight.

Conventional trailer mounts a fifth wheel type of bolster to support the front of the load and tows a pole trailer on which the rear end of the load is carried.

This Catalog is more than a listing of types of trailers, with sizes, weights, etc.

It deals also with the conditions encountered in the hauling of heavy equipment and explains how Rogers' long experience as trailer builders has enabled them to meet each situation effectively.

Each trailer is broken down into units which are illustrated and described in detail.

If you now operate or contemplate the purchase of heavy duty trailers, you'll find much of interest in the Rogers Catalog.

228-4-51

ROGERS Low Bed Heavy Duty TRAILERS

EXPERIENCE *builds 'em* — ROGERS — PERFORMANCE *sells 'em*

Rogers Brothers pioneered the building of heavy duty, low bed trailers in 1915, establishing a business that has served many branches of industry and grown consistently through the intervening years.

During this period Rogers engineers have developed numerous improvements and exclusive features now in general use.

The present Rogers line consists of seven basic types of trailers available in twenty-two capacities; including a new "Tagalong" trailer which uses a dump truck as a tractor and is made in three capacities; also a pole type trailer which consists of a conventional trailer carrying a bolster and fifth wheel, an extendible drawbar and a trailing unit. This trailer, available in various sizes, is adapted to the hauling of stacks, pipes, lengths of steel and other long and heavy articles. A notable use of these trailers in war is the moving of long, heavy coast guns.

The Rogers policy is to utilize basic proven designs in building all trailers but to modify them as desired and practical to meet the specific needs and personal preferences of each purchaser.

In other words, Rogers trailers are "tailored to each specific need," but built on a basis that utilizes economical, high production methods. Thus, purchasers obtain the utmost in performance and value.

If considering the purchase of a trailer, write stating your needs and preferences. In any event, note the three following pages —then write for the large, illustrated Rogers catalog.

Most Recent Advanced Development

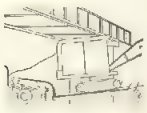
THE ROGERS' *Power-Lift* DETACHABLE GOOSENECK TRAILER

Detaches quickly for fast, easy front loading.

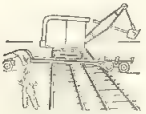
Your trailer can be merely a heavy vehicle or a versatile money-making machine like this new Rogers unit.

It will haul heavier loads, with less elapsed time under the varying road conditions encountered than any trailer heretofore available.

The driver, using the truck winch, can detach the gooseneck, load or unload equipment, and reattach it in about 5 minutes. He can raise or lower the front of the deck as explained; or he can quickly load non-powered or disabled equipment with remarkable speed.



Stoops to clear low overhead obstructions.



Raises its deck to clear high banked crossings.

Carries heavier loads faster and more profitably on larger tires.

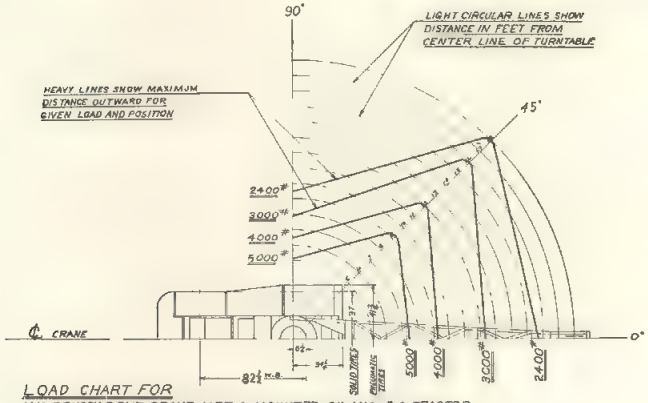
HUGHES-KEENAN

Roustabout Crane

Mounted on International Tractors

Roustabout Model MRT-1
on International I-6 or ID-6 Wheel Tractor

Model MRT-1 crane with a capacity of 5,000 pounds is built simular to its "Big Brother," the Model MC-4 crane, with steering wheels and tractor power plant in rear, drive wheels and boom turntable in front. This construction permits greater reach with boom in front, extra stability and easy steering regardless of crane load. Visibility is clear in all directions. Boom swings full 90° either side of front center. Automatic boom topping and boom swing stops. Boom raises from horizontal to full height in ten seconds. Hoisting speed 60 F.P.M. with single line, 30 F.P.M. with double line. Speeds can be changed, if required. Heavy jaw clutches used in load hoist, boom swing and boom topping. All operations simultaneous or independent. Hydraulic wheel brakes, individual locking parking brakes. Five forward and one reverse speed. Either solid or pneumatic tires on drive and steering wheels.



LOAD CHART FOR
H.K. ROUSTABOUT CRANE MRT-1 MOUNTED ON I.H.C. I-6 TRACTOR
WITH 40 X 10 SOLID TIRES ON DRIVE WHEELS WITH WHEEL WEIGHTS
OR WITH 300 X 24 DUAL PNEUMATIC TIRES ON DRIVE WHEELS
OVERALL WIDTH – SOLID TIRES 77" – DUAL PNEUMATIC TIRES 83½"

260-3A-51

HUGHES-KEENAN Roustabout Crane

Mounted on International Tractors

Roustabout Model MC-2

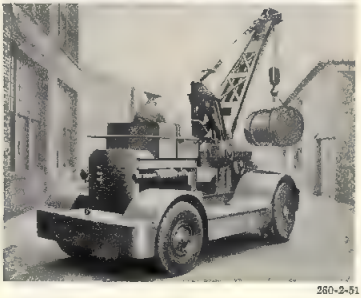
on International I-9 or ID-9 Wheel Tractors or Tractors T9, TD-9, TD-14A, or TD-18A

Model MC-2 for maximum loads of 10,000 pounds. Mechanical drive with double oil type friction clutches for load hoist and boom swing—smoother operation, independent of tractor clutch. Standard hoisting speed 60 F.P.M. with single hoist line. Boom swings 180° in 15 seconds on full ball-bearing turntable. Speeds can be changed to suit requirements See first page. On MC-2R all crane operations can be performed at the same time.

Roustabout Model MC-4

on International I-9 or ID-9 Tractor

Built for transporting loads, with steering wheels and tractor power-plant in rear, drive wheels and boom turntable in front. Permits greater reach with boom in front, extra stability and easy steering regardless of crane load. Visibility is clear in all directions. Load range to 7½ tons. Boom swings full 90° either side of front center, 180° in 15 seconds, automatic stop; boom topping, horizontal to full height, in 10 seconds, independent of load hoist. Hoisting speed 60 F.P.M. with single line, 30 F.P.M. double line, 20 F.P.M. triple line, which is standard equipment, easily changed to double or single without extra parts. All speeds changeable as required. Double oil-type friction clutches for load hoist and boom swing. Hydraulic wheel brakes, individual locking brakes for drive wheels. Five forward and one reverse speed. 40 by 12 solid tires on drive wheels. High pressure pneumatic or solid tires on steering wheels.



260-2-51

HUGHES-KEENAN

Roustabout Crane

Fast-Action All-Around-the-Plant Load-Handler

FREE-ROVING tractor-footed Roustabout Crane is the fast, profitable load-hustler everywhere outside the range of heavy track-locked handling equipment. Mobile, goes where you want it. Powerful, handles loads to 5 tons. It reaches over walls, car sides, other obstacles. Saves delays—it's always ready. Easy to operate—any good workman quickly learns the trick of it. By its own direct savings over bare-hand methods and its help to plant production and freight movement, it pays you fine dividends on its moderate cost.

Engineered for Efficient Action

Operator always has clear view of load, wherever boom or counterweight are. Controls are in easy reach.

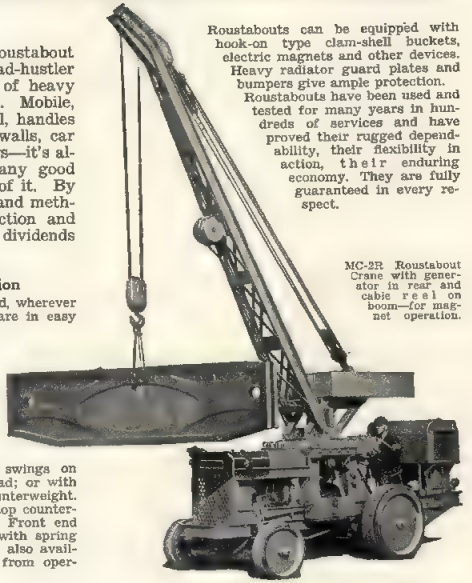
Boom swings freely on ball-bearing turntable, the most efficient bearing for load handling and for smooth, easy movement. Single thread worm and gear operation with all working parts fully enclosed and running in oil—safe from dirt and costly wear.

Roustabout Cranes are made with either top counterweight which swings on turntable always opposite boom and load; or with steel sheave frame replacing top counterweight. Effective loads are increased by use of top counterweight with least total crane weight. Front end steer wheel type cranes are equipped with spring stabilizers at outer ends of front axles; also available are locking stabilizers controlled from operator's seat to increase side loads.

All crane action by tractor power—no hand operation. All parts accessible for inspection, tractor parts easily removable for service.

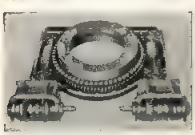
Model MC-1 cranes lift 2,500 pounds with single hoist line or maximum of 5,000 pounds with double hoist line. Model MC-2 and MH-1 cranes lift 4,000 pounds with single hoist line, up to 8,000 pounds with double hoist line; triple hoist line for loads exceeding 8,000 pounds. Sufficient cable provided and hoist lines easily and quickly changed from single to double or triple to suit loads

Roustabouts can be equipped with hook-on type clam-shell buckets, electric magnets and other devices. Heavy radiator guard plates and bumpers give ample protection. Roustabouts have been used and tested for many years in hundreds of services and have proved their rugged dependability, their flexibility in action, their enduring economy. They are fully guaranteed in every respect.



MC-2R Roustabout Crane with generator in rear and cable reel on boom—for magnet operation.

Boom swing on ball-bearings assures smarter performance longer life. Single row of bearings in lighter MC-1, double row in MC-2 and MH-1.



On MC-2, double friction clutch runs in oil—quick, smooth operation, loads up or down or boom around, independent of tractor clutch.

Roustabout Crane Models

Model MC-1S: 5,000-lb. capacity, jaw clutches, single drum type without boom topping lift. Load raised or lowered and boom swung right or left independently or simultaneously. Cannot raise or lower boom with load on hook.

Model MC-1R: 5,000-lb. capacity, jaw clutches, winch back of operator's seat for boom topping. Load hoisting, boom swing and boom topping independent or simultaneous. Raises or lowers boom with load on hook

Model MC-2S: 8,000-lb. capacity, single drum type without boom topping lift, double oil type friction clutches Load raised or lowered and boom swung right or left independently or simultaneously. Cannot raise or lower boom with load on hook.

Model MC-2R: 10,000-lb. capacity, Boom swing and load hoisting by double oil type friction clutches, rear winch for boom topping by jaw clutch. All operations independent or simultaneous. Raises or lowers boom with load on hook.

Model MH-1S: 8,000-lb. capacity, single drum type without boom topping lift, boom swing and load hoisting by individual hydraulic motors, always independent operations. Cannot raise or lower boom with load on hook.

Model MH-1D: 10,000-lb. capacity, double drum type for boom topping. One hydraulic motor for boom swing, another for load hoisting and boom topping; all operations always independent. Raises or lowers boom with load on hook.

260-1-51

HUGHES-KEENAN

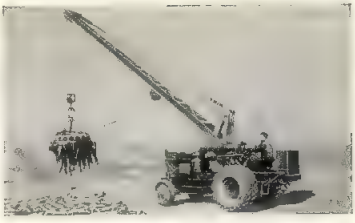
Roustabout Crane

Mounted on International Tractors

Roustabout Model MC-1

on International I-6 or ID-6 Wheel Tractors
on Crawler Tractors T-9, TD-9 or TD-14A

Model MC-1 for maximum loads of 5,000 pounds. Standard hoisting speed 60 feet per minute with single hoist line, 30 feet per minute with double hoist line. Boom swings 180° in 15 seconds. Speeds can be varied to suit requirements. Jaw clutch control. See first page.



Roustabout Model MH-1

on International I-9 or ID-9 Wheel Tractors
or Crawler Tractors T-9, TD-9, TD-14A or TD-18A

This Roustabout sets new standards of fast, smooth performance through its hydraulic power and controls. Individual 6-cylinder radial type reversing hydraulic motors for load hoist and boom swing. These eliminate all gears and clutches except final worm-and-gear drive for load hoist and boom swing, which are always independent operations. Automatic safety release valve prevents overloading. Motors are self-locking in neutral. Double ball-bearing boom turntable. Single hoist line for maximum 4,000-lb. load, double line for loads to 8,000 lbs., triple line without extra charge for 10,000 lbs. (12,000 lbs. on crawler tractors). Two models: MH-1S, no boom topping lift, boom angle adjusted by load line without load on hook, with automatic guy-line control; MH-1D, with boom topping lift drum, one lever controls boom topping and load hoisting which are always independent operations. Rear winch cannot be supplied

Roustabout Model MC-8

on International TD-18A Crawler Tractor

A heavy-duty, full swing boom crane for special heavy service. Top counterweight with short tail swing permits greatest lifting capacity in smallest space. Double oil type friction clutches control load hoisting, boom topping and boom swing, giving easy, smooth operation and with all operations performed independently or at same time. Independent lever for each operation. Hoist speed 150 feet per minute with single line or 50 feet per minute with three part line which is standard equipment. Boom swings through 180° in 15 seconds. Boom raised from horizontal to highest working position in 12 seconds.

Lifting Capacities

Load (pounds) (with counterweight)	20,000	16,000	14,000	10,000	6,000	4,000
Radius from center of swing	9'-8"	10'-6"	12'-0"	15'-0"	21'-8"	27'-6"

Saunders

TOOL and DIE CO. ★ Aurora, Illinois

SAUNDERS No. 600

Super BATTLE TANK

with Powerful Geared Friction Motor!

WORLD'S CHAMPION CLIMBER!

Authentic Detail Revolving Turret and Cannon

Realistic Tank Action Over Rough Ground!

Pulls MANY TIMES its Own Weight!

Built like a battle tank with high powered friction motor. Made of shock resistant plastic in regular Army color. Revolving turret with insignia decal on sides. Will climb over difficult terrain and obstructions. Size 8" long, 4½" wide, 4" high. Individually boxed.

OUR REPRESENTATIVES

Northeast
WEINBERG-WEIL
Room 424
200 Fifth Avenue
New York 10, New York

Mountain States
W. E. BERGSTROM SALES CO.
623 Exchange Bldg.
Denver, Colorado
&
157 Motor Avenue
Salt Lake City, Utah

Middle West
J. H. EYERLY & ASSOCIATES
1442 Merchandise Mart
Chicago 54, Illinois

Pacific Coast
WARD FRANCIS COMPANY
101 Terminal Sales Bldg.
Seattle 1, Washington
&
527 West Seventh St.
Los Angeles, California

Southeast & Southwest
THE RIVERS COMPANY
Radio Center Bldg
Memphis, Tennessee

RUNS FORWARD
BUMPS
RUNS BACKWARD!

IT'S A "WHIZZ" –

SUPER MOTOR BUS

with the Phenomenal
REVERSO-GYRO-MOTOR!

A MECHANISM THAT DEFIES ALL KNOWN MECHANICAL PRINCIPALS IN A TOY!
(patent pending)

Runs 3 to 4 Times As Long As The Ordinary Friction Motor!

No. 500. Runs Forward . . . BUMPS . . . Reverses! Runs Backward . . . BUMPS . . . and continues action until power dies.

Brilliant decorated body in red, yellow and silver combinations with decals.

Rubber tires. Length, 12½"—Height, 4½"—Width, 3½".

Individually boxed.

No. 250

FIRE CHIEF Car

WITH SIREN!

POWERED BY FRICTION MOTOR. SIMULATED SIREN ON FENDER. SIMULATED TOP LIGHT.

Heavy plastic body. Enclosed motor. Decorated grill and bumpers. Length, 10½".

Gold lettering decals on side and hood. Red body with black top. Individually boxed.

...LOOKS JUST LIKE THE REAL THING!

No. 300

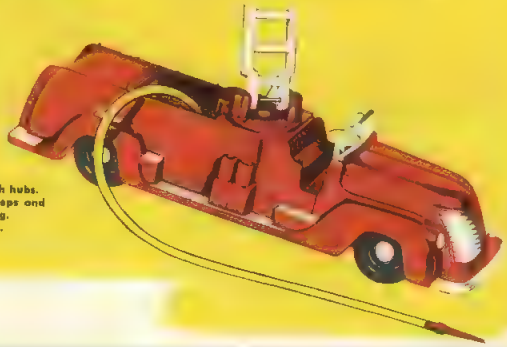
SUPER Fire Truck

POWERED BY FRICTION MOTOR WITH SIREN! ADJUSTABLE LADDER MOUNTED ON SWIVEL. FIRE HOSE AND NOZZLE.

Heavy plastic recessed body in bright red. Emergency compartment mounted on rear. Enclosed motor.

Rubber wheels with hubs. Silver decorated steps and grill. 12 inches long. Individually boxed.

A TERRIFIC SELLER!!
EVERY BOY WANTS ONE!



A Saunders EXCLUSIVE!

The New - Sensational - Action Packed

CATAPULT PLANE CARRIER

• A TERRIFIC SELLER BECAUSE IT HAS TERRIFIC PLAY VALUE!

CATAPULTS JET PLANES FROM FLIGHT DECK!

Complete with 5 Jet planes and 2 catapult renewals

AMPHIBIAN— RUNS ON LAND— FLOATS ON WATER!

LOOKS JUST LIKE A REAL PLANE CARRIER WITH

- FLIGHT DECK
- SUPER STRUCTURE
- SMOKE STACK
- GUNS

A realistic action toy of plastic. Jet planes are shot from the flight deck a distance of 15 to 20 feet. Body of carrier designed to simulate appearance of the Navy's fighting flat top. Comes with 5 fighter planes.

Wheels permit play on floor and the water tight hull allows it to float on water. Renewal catapults are easily replaced. Carrier length 12½ inches, height 3 inches, width 3 inches. Individually boxed. Packed 2 dozen to carton.

Saunders

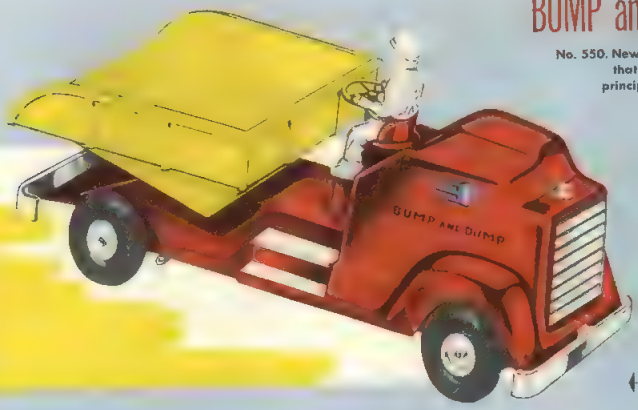
500 RATHBONE AVENUE

TOOL and DIE CO. • Aurora, Illinois

PLASTIC MECHANICAL TOYS

REVERSO-GYRO-MOTOR!

BUMP and DUMP TRUCK

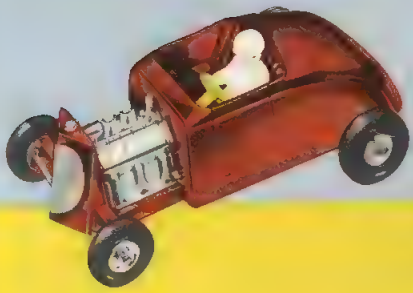


No. 550. New reversing friction drive motor that defies all known mechanical principles in a toy. (Patent pending.)

IT BUMPS—
IT DUMPS—
IT RETURNS!

No winding . . . just a short, even push and it is on the way . . . speedily! Choice of two color combinations: red body with yellow dump, or yellow body with red dump. Of sturdy plastic with steel frame. Rubber tires. Size: 10½" x 4¾" x 4½". Individually boxed.

LOTS OF ACTION:
← RUNS BACKWARD
BUMPS!
DUMPS!
and RETURNS FORWARD! →



IT'S TERRIFIC!

"HOT ROD" with "SOUPED-UP" Motor

IT RUNS—IT CLIMBS—IT JUMPS!

No. 400. Hottest, fastest action of any mechanical toy! A real sensation!

Stripped down, bright red plastic body. Aluminum color motor and grill. Rubber tires. Size: 7½" x 3¾" x 3". Individually boxed.

No. 225

POLICE SQUAD Car

WITH POWERFUL FRICTION MOTOR AND SIREN! AERIAL! SIMULATED TOP LIGHT AND SIREN ON FENDER!

What a beauty! Heavy plastic body in red or blue. Gold lettering decals on side and hood.

Decorated windows and grill. Enclosed motor. Rubber wheels. Individually boxed.

A FAITHFUL REPRODUCTION IN MINIATURE

Saunders

TOOL and DIE CO. ★ Aurora, Illinois

PLASTIC MECHANICAL TOYS

semca *Jeweled Swiss Decorative Clocks*

...for boudoir

40-hour — 7 jewel boudoir alarm clock. Round gilt-finish metal frame set with simulated stones. Colors available: Rose, Aqua, Crystal, Amethyst, Peridot and Topaz. Silver-finish dial with gilt numerals, luminous dots and hands. ***Height*** 2⅞"; ***Width*** 3", ***Depth*** 1½"

3 J 718 Dealer Cost Each $10.77 Retail price **$17.95** plus tax

40-hour — 7 jewel musical alarm clock. Enamel metal case trimmed with bright gilt frame and enriched with gilt floral designs. A most unusual creation. Silver-finish dial with gilt numerals designed to typify the musical scale and clef, luminous dots and hands. Available in Blue, Maroon, Brown, Green and Beige. ***Height*** 5½"; ***Width*** 4"; ***Depth*** 2"

3 J 741 Dealer Cost Each $11.37 Retail price **$18.95** plus tax

40-hour — 7 jewel traveling or boudoir Brocaded alarm clock. Silver-finish dial with gilt numerals, luminous dots and hands. Available White, Black, Aqua, Coral and Blue Brocade all enhanced with Gold. Size: 3⅜ x 3⅜ x 1⅜"

3 J 710 Dealer Cost Each $9.57 Retail price **$15.95** plus tax

40-hour — 7 jewel boudoir alarm clock in gilt frame with easel. Set with simulated stones alternating Crystal Baguettes and colored round rhinestones. Colors available: Peridot, Aqua, Rose, Topaz and Amethyst, also available in All-Crystal. ***Height*** 5"; ***Width*** 5"; ***Depth*** 1½"

3 J 173 Dealer Cost Each $20.10 Retail price **$33.50** plus tax

nationally known • mechanically perfect • fully guaranteed

Phinney-Walker

Distinctive Desk and Traveling Clocks

30-hour traveling alarm. Simulated leather case in Blue, Tan-Pig, Maroon and Tan. Silver-finish dial, full luminous figures and hands. *Size:* 4-3/16 x 3 9/16 x 1⅝"

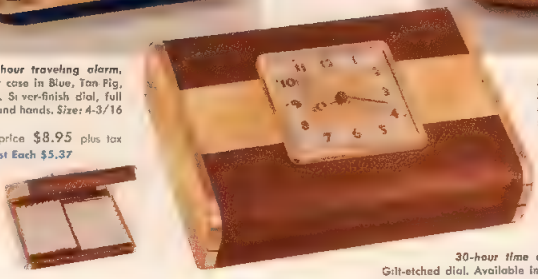
Retail price $8.95 plus tax

3 J 26 Dealer Cost Each $5.37

30-hour traveling alarm. Smallest and thinnest American-made clock. Simulated leather case in Tan, Maroon, Blue and Tan-Pig. Silver-finish dial, full luminous figures and hands. *Size:* 3⅜ x 3⅜ x 1⅜"

Retail price $8.95 plus tax

3 J 27 Dealer Cost Each $5.37



30-hour time clock. Combination cigarette or card-box. Gilt-etched dial. Available in Tan-Pig or Maroon simulated leather case with gilt-finish metal ornamentation. *Height* 1¾"; *Width* 6"; *Depth* 4½"

Retail price $9.95 plus tax

3 J 20 Dealer Cost Each $5.97

30-hour time clock with 22-year perpetual calendar. A most unusual American creation. Bright gilt-metal case with easel. Silver-finish dial. *Height* 4"; *Width* 4"; *Depth* 1¼"

3 J 32 Dealer Cost Each $5.97 Retail price $9.95 plus tax

30-hour time traveling clock. Attractive simulated leather case. Silver-finish dial with full luminous figures and hands. Available in Maroon, Tan-Pig, Blue and Tan. *Size:* 4-9/16 x 4-1/16 x 1⅜"

3 J 15 Dealer Cost Each $4.30 Retail price $6.45 plus tax

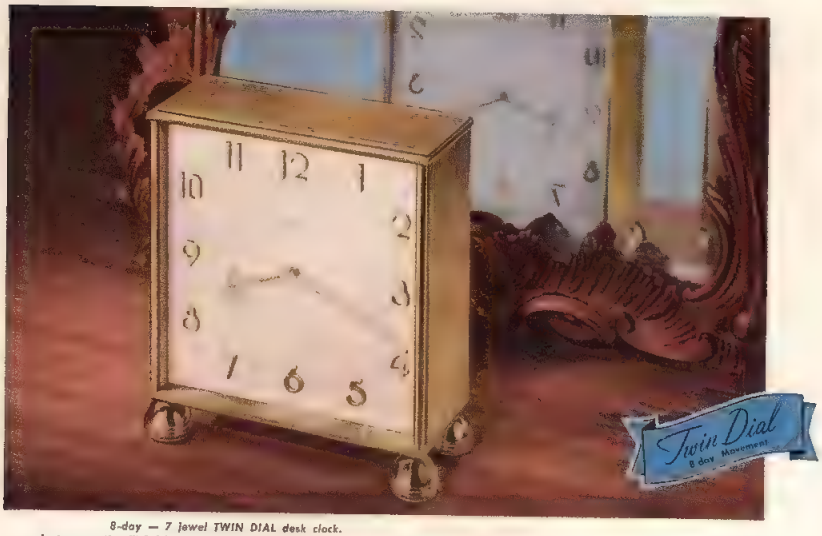
Same as above in smaller size: 3⅜ x 3⅜ x 1¼"

3 J 16 Dealer Cost Each $4.30 Retail price $6.45 plus tax

nationally known · mechanically perfect · fully guaranteed

semca *Jeweled Swiss Clocks*

...for desk and boudoir



8-day — 7 jewel TWIN DIAL desk clock. Lustrous satin-gilt-finish case. Silver-finish dial with raised gilt numerals. ***Height*** 5⅜"; ***Width*** 5"; ***Depth*** 2"

Retail price $42.50 plus tax

3 J 7852 Dealer Cost Each $25.50

8-day — 7 jewel boudoir alarm clock. Gilt metal fluted case. Silver finish dial with gilt numerals, luminous dots and hands. One key winds time and alarm. ***Height*** 2 7/16", ***Width*** 2½; ***Depth*** 1"

Retail price $14.95 plus tax

3 J 771 Dealer Cost Each $8 97

8 day — 7 jewel DESK or BOUDOIR alarm clock. Gilt metal fluted case with decorative metal base. Silver-finish dial with raised gilt numerals. Luminous dots and hands. One key winds time and alarm. ***Height*** 4¾", ***Width*** 5"; ***Depth*** 2"

Retail price $21.50 plus tax

3 J 777 Dealer Cost Each $12 90

nationally known • mechanically perfect • fully guaranteed

semca *Jeweled Swiss Alarm Clocks*

...for traveling

40-hour — one jewel traveling alarm clock. Attractive simulated leather case. Gilt-finish dial with full luminous figures and hands. Available in Maroon, Tan-Pig, Blue and Tan. Size: 3⅜ x 3⅜ x 1⅜"

Retail price $12.45 plus tax

3 J 112 Dealer Cost Each $7.43

8-day — 7 jewel traveling alarm clock. Genuine leather case. Silver-finish dial with luminous dots and hands. One key winds time and alarm. Available in Blue, Pigskin, Brown and Red. Size. 3⅛ x 3⅜ x 1⅜"

Retail price $17.50 plus tax

3 J 77 Dealer Cost Each $10.50

8-day — 7 jewel traveling alarm clock. Folding gilt etched metal case. Silver-finish dial with luminous dots and hands. One key winds time and alarm. Size: 3-11/16 x 2¾ x 1⅛"

Retail price $19.95 plus tax

3 J 773 Dealer Cost Each $11.97

8-day — 7 jewel traveling alarm clock with automatic calendar. Fine quality genuine leather case. Silver-finish dial with day and date indicators. Luminous dots and hands. Available: Red, Pigskin, Brown and Blue. Size- 3 5/16 x 3 x 1⅜"

3 J 7850 Dealer Cost Each $19.50 Retail price $32.50 plus tax

8-day — 7 jewel ROLL TOP traveling alarm clock. A most unique creation. Finest quality genuine leather. Clock automatically raises to vertical position when roll top is opened. Luminous figures and hands. Available in Pigskin, Red, Brown and Blue. Size- 3⅛ x 2-7/16 x 1-5/16"

3 J 7854 Dealer Cost Each $16.50 Retail price $27.50 plus tax

nationally known • mechanically perfect • fully guaranteed

semca *Jeweled Swiss Clocks*

FOR TRAVEL AND BOUDOIR

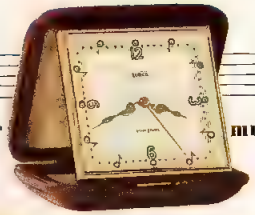
The ***CONVERTIBLE*** *desk-boudoir clock that travels!* 1-day, 7-jewel alarm movement. Gilt-etched metal case, white dial with gilt numerals, luminous hands and dots. Panes for personalized engraving. Silver (open) 6⅝" x 2⅜" x 1⅛" . . . closes to compact traveling case 4-3/16" x 2½" x 1⅛".

CP730*(1914) Retail price **$15.95** plus tax

semca *Jeweled Swiss Alarm Clocks*

FOR TRAVEL

. . . first time ever musical traveling alarm



1-day, 7-jewel traveling musical alarm clock. A unique creation. Genuine morocco leather case. White dial with luminous hands designed to simulate the musical clef, gilt numerals and luminous dots which take the form of musical notes. Size: 3⅝" x 3⅝" x 1½". Colors: Brown, Red, Blue and Green.

CP742*(2580)

Retail price **$21.50** plus tax

1-day, 1 jewel traveling alarm clock. Attractive simulated leather case. Gilt finish dial with full luminous figures and hands. Size: 3⅜" x 3⅜" x 1⅜". Colors: Maroon, Tan-Pig, Blue and Tan.

CP112*(1490) Retail price **$12.45** plus tax

8-day, 7-jewel traveling alarm clock. Genuine leather case. Silver-finish dial with luminous dots and hands. Gilt finish numerals. One key winds time and alarm. Size 3⅝" x 3⅜" x 1⅜". Colors: Blue, Pigskin, Brown and Red.

CP77*(2220)

Retail price **$18.50** plus tax

8-day, 7-jewel traveling alarm clock. Folding gold-etched metal case. Silver-finish dial with luminous dots and hands. Gilt-finish numerals. One key winds time and alarm. Size: 3-1 /16" x 2¾" x 1⅛".

CP773*(2580) Retail price **$21.50** plus tax

8-day, 7-jewel traveling alarm clock with automatic calendar. Fine quality genuine leather case. Silver-finish dial with day and date indicators. Gilt-finish numerals, luminous dots and hands. Size: 3-5/16" x 3" x 1⅜". Colors: Red, Pigskin, Brown, Blue.

CP785O*(3900) Retail price **$32.50** plus tax

1-day, 7-jewel traveling alarm clock. Genuine leather case. White dial with gilt-finish numerals and luminous hand and dots. Size: 3⅜" x 3½" x 1¾". Colors: Brown, Blue, Tan, Pigskin, Red.

CP70*(1674) Retail price **$13.95** plus tax

NATIONALLY KNOWN • MECHANICALLY PERFECT • FULLY GUARANTEED

semca *Jeweled Swiss Decorative Clocks*

FOR DESK AND TRAVELING

7-day, 7-jewel Calendar traveling alarm clock with automatic shut-off feature. In genuine leather case. Authentic 22-year calendar can be adjusted for any month with a flip of the finger. White dial with gilt-finish numerals and ornate hands and dots. Size 4" x 3⅜" x 1⅛". Colors: Tan Pig, Brown, Tan, Maroon, Blue.

CP723*(2034)

Retail price $16.95 plus tax

7-day 7-jewel boudoir alarm clock. Round mete case with gleaming gilt finish. Silver finish dial with full luminous figures and hands. Size 2⅜" x 2⅜"

CP713*(1274)

Retail price $9.95 plus tax

Same model available in 8 day, 7 jewel.

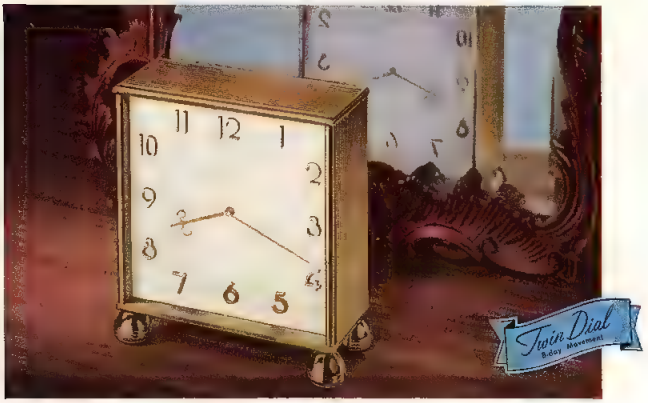
CP771*(1914)

Retail price $15.95 plus tax

8-day, 7-jewel ROLL TOP traveling alarm clock. A most unique creation. Finest quality genuine leather. Clock automatically rises to vertical position when roll top is opened. Luminous figures and hands. Size 3⅝" x 2-7/16" x 1 5/16". Colors: Pigskin, Red, Brown and Blue.

CP785*(3300)

Retail price $27.50 plus tax



8-day, 7-jewel TWIN DIAL desk clock. Lustrous satin-gilt-finish case. Silver-finish dial with raised gilt numerals. Height 5⅛"; Width 5"; Depth 2".

CP785*(5100)

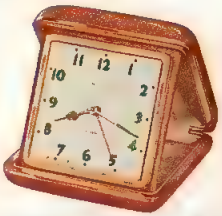
Retail price $42.50 plus tax

NATIONALLY KNOWN • MECHANICALLY PERFECT • FULLY GUARANTEED

Phinney-Walker DESK AND TRAVELING CLOCKS

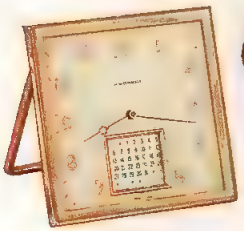
30-hour traveling alarm. Simulated leather case. Silver-finish dial, full luminous figures and hands. Size 4-3/16" x 3-9/16" x 1⅞". Colors: Blue, Tan-Pig, Maroon, Tan.

CP26*(1180) Retail price **$8.95** plus tax



30-hour traveling alarm. Smallest and thinnest American-made clock. Simulated leather case. Silver-finish dial, full luminous figures and hands. Size: 3⅝" x 3⅜" x 1⅞". Colors: Tan, Maroon, Blue and Tan-Pig.

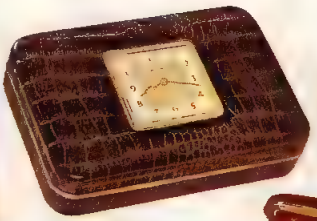
CP27*(1180) Retail price **$8.95** plus tax



30-hour clock with 22-year perpetual calendar. Tells both the time and the date at a glance! Calendar is adjusted by the merely turning a tip of the finger. Square metal case with easel. Bright gold finish. Silver finish dial with gilt-finish numerals. ***Height*** 4"; ***Width*** 4", ***Depth*** 1¼".

CP32*(1314)

Retail price **$9.95** plus tax



30-hour combination clock and cigarette box. Gilt etched dial with gilt-finish numerals. In simulated leather case, a legator finish, with gilt-finish metal rims. Case has three compartments for playing cards and cigarettes. ***Height*** 1¾", ***Width*** 6", ***Depth*** 4½"

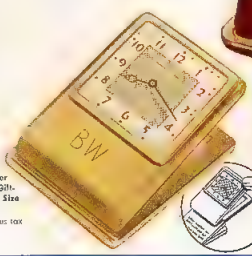
CP20*(1194)

Retail price **$9.95** plus tax

As above with alarm. 7-jewel Semca. Size 3¼" x 3¼".

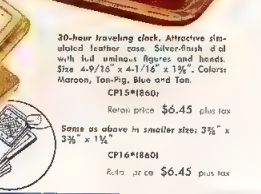
CP722*(1674)

Retail price **$13.95** plus tax



"Clip-Clock", 30-hour . . . a brand-new double-duty convenience for the desk. Square clock is set in strong gilt-finish metal clip for holding papers and memorandas; also serves as paper weight. Initials may be engraved, if desired. Gilt-etched dial with gilt-finish numerals and hands. Size 3" x 2⅛" x 4¼".

CP39*(994) Retail price **$7.95** plus tax



30-hour traveling clock. Attractive simulated leather case. Silver-finish dial with full luminous figures and hands. Size 4-9/16" x 4-1/16" x 1⅝". Colors: Maroon, Tan-Pig, Blue and Tan.

CP15*(1860)

Retail price **$6.45** plus tax

Same as above in smaller size: 3⅝" x 3⅛" x 1¼"

CP16*(1860)

Retail price **$6.45** plus tax

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semca *Jeweled Swiss Clocks*
...for desk and boudoir

8-day — 7 jewel TWIN DIAL desk clock. Lustrous satin-gilt-finish case. Silver-finish dial with raised gilt numerals. ***Height*** 5⅛", ***Width*** 5"; ***Depth*** 2"

1 W 7852 — $25.50 Retail price $42.50 plus tax

8-day — 7 jewel boudoir alarm clock. Gilt metal fluted case. Silver-finish dial with gilt numerals, luminous dots and hands. One key winds time and alarm. ***Height*** 2-7/16"; ***Width*** 2½"; ***Depth*** 1"

1 W 771 — $8.97 Retail price $14.95 plus tax

8-day — 7 jewel DESK or BOUDOIR alarm clock. Gilt metal fluted case with decorative metal base. Silver-finish dial with raised gilt numerals. Luminous dots and hands. One key winds time and alarm. ***Height*** 4¾", ***Width*** 5"; ***Depth*** 2"

1 W 777 — $12.90 Retail price $21.50 plus tax

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semca *Jeweled Swiss Alarm Clocks*

...for traveling

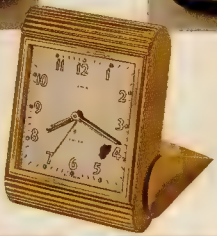
40-hour — one jewel traveling alarm clock. Attractive simulated leather case. Gilt-finish dial with full luminous figures and hands. Available in Maroon, Tan-Pig, Blue and Tan. *Size:* 3⅜ x 3⅜ x 1⅜"

1 W 112 — $7.45 Retail price $12.45 plus tax

8-day — 7 jewel traveling alarm clock. Genuine leather case. Silver-finish dial with luminous dots and hands. One key winds time and alarm. Available in Blue, Pigskin, Brown and Red. *Size:* 3⅜ x 3⅜ x 1⅜"

Retail price $17.50 plus tax

1 W 77 — $10.50



8-day — 7 jewel traveling alarm clock. Folding gilt etched metal case. Silver-finish dial with luminous dots and hands. One key winds time and alarm. *Size:* 3-11/16 x 2¾ x 1⅛"

1 W 773 — $11.97 Retail price $19.95 plus tax

8-day — 7 jewel traveling alarm clock with automatic calendar. Fine quality genuine leather case. Silver-finish dial with day and date indicators. Luminous dots and hands. Available: Red, Pigskin, Brown and Blue. *Size:* 3-5/16 x 3 x 1⅜"

1 W 7850 — $19.50 Retail price $32.50 plus tax

8-day — 7 jewel ROLL TOP traveling alarm clock. A most unique creation. Finest quality genuine leather. Clock automatically raises to vertical position when roll top is opened. Luminous figures and hands. Available in Pigskin, Red, Brown and Blue. *Size:* 3⅛ x 2-7/16 x 1-5/16"

1 W 7854 — $16.50 Retail price $27.50 plus tax

nationally known · mechanically perfect · fully guaranteed

Phinney-Walker

Distinctive Desk and Traveling Clocks

30-hour traveling alarm. Simulated leather case in Blue, Tan-Pig, Maroon and Tan. Silver-finish dial, full luminous figures and hands. *Size:* 4-3/16 x 3-9/16 x 1⅜"

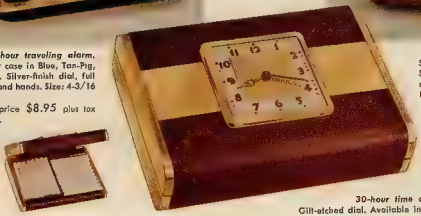
Retail price $8.95 plus tax

1 W 26 — $5.37

30-hour traveling alarm. Smallest and thinnest American-made clock. Simulated leather case in Tan, Maroon, Blue and Tan-Pig. Silver-finish dial, full luminous figures and hands. *Size:* 3⅜ x 3⅜ x 1⅜"

Retail price $8.95 plus tax

1 W 27 — $5.37



30-hour time clock. Combination cigarette or card-box. Gilt-etched dial. Available in Tan-Pig or Maroon simulated leather case with gilt-finish metal ornamentation. *Height* 1¾"; *Width* 6"; *Depth* 4½"

Retail price $9.95 plus tax

1 W 20 — $5.97

30-hour time clock with 22-year perpetual calendar. A most unusual American creation. Bright gilt metal case with easel. Silver-finish dial. *Height* 4"; *Width* 4"; *Depth* 1¾"

1 W 32 — $5.97 Retail price $9.95 plus tax

30-hour time traveling clock. Attractive simulated leather case. Silver-finish dial with full luminous figures and hands. Available in Maroon, Tan-Pig, Blue and Tan. *Size:* 4-9/16 x 4-1/16 x 1⅜"

Retail price $6.45 plus tax

1 W 15 — $4.30

Same as above in smaller size: 3⅜ x 3⅜ x 1⅛"

Retail price $6.45 plus tax

1 W 16 — $4.30

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semca *Jeweled Swiss Decorative Clocks*

...for boudoir

40-hour — 7 jewel boudoir alarm clock. Round gilt-finish metal frame set with simulated stones. Colors available: Rose, Aqua, Crystal, Amethyst, Peridot and Topaz. Silver-finish dial with gilt numerals, luminous dots and hands. *Height* 2⅝"; *Width* 3"; *Depth* 1½"

1 W 718 — $10.77 Retail price $17.95 plus tax

40-hour — 7 jewel musical alarm clock. Enamel metal case trimmed with bright gilt frame and enriched with gilt floral designs. A most unusual creation. Silver-finish dial with gilt numerals designed to typify the musical scale and clef, luminous dots and hands Available in Blue, Maroon, Brown, Green and Beige. *Height* 5½"; *Width* 4"; *Depth* 2"

1 W 741 — $11.37 Retail price $18.95 plus tax

40-hour — 7 jewel traveling or boudoir Brocaded alarm clock. Silver-finish dial with gilt numerals, luminous dots and hands. Available White, Black, Aqua, Coral and Blue Brocade all enhanced with Gold. *Size:* 3⅝ x 2⅝ x 1⅜"

1 W 710 — $9.57 Retail price $15.95 plus tax

40-hour — 7 jewel boudoir alarm clock in gilt frame with basel. Set with simulated stones alternating Crystal Baguettes and colored round rhinestones. Colors available: Peridot, Aqua, Rose, Topaz and Amethyst, also available in All-Crystal. *Height* 5"; *Width* 5"; *Depth* 1⅝"

1 W 173 — $20.10 Retail price $33.50 plus tax

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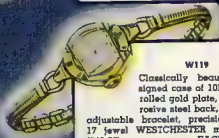
WATCHES

EVERY WESTCHESTER WATCH has a JEWELED LEVER MOVEMENT, product of a factory where high-grade watchmaking has been the tradition for over 100 years. During its manufacture it is under constant supervision—rigid inspection as to quality of material and true performance.

Guarantee
Every WESTCHESTER WATCH is
Scientifically built and has been fully tested and timed before leaving the factory. It is guaranteed for excellence of craftsmanship and quality of material, also against defects in manufacture
WESTCHESTER WATCH CO

W118
Glorious styling, 10K Yellow rolled gold plate case, Non Corrosive steel back with an attractive expansion bracelet, finely timed and dependable 17 jewel WESTCHESTER movement.
($43.00) EACH **$21.80**



W119
Classically beautiful designed case of 10K Yellow rolled gold plate, Non Corrosive steel back, blending adjustable bracelet, precision made 17 jewel WESTCHESTER movement.
($43.00) EACH **$21.80**

W120
Enchanting creation, 10K Yellow rolled gold plate case, steel back, link bracelet, 17 jewel WESTCHESTER movement.
($43.00) EACH **$21.80**

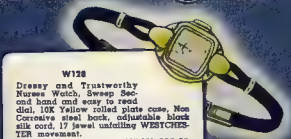
W121
Same with 7 jewel movement.
($35.00) EACH **$17.75**

W122
Exquisite case of 10K Yellow rolled gold plate, steel back, expansion bracelet, 17 jewel WESTCHESTER movement.
($43.00) EACH **$21.80**

W123
Same with 7 jewel movement.
($37.50) EACH **$18.90**

W124
Unusually attractive 10K Yellow rolled gold plate case, steel back, black silk cord, 17 jewel WESTCHESTER movement.
($40.00) EACH **$19.95**

W125
Same with 7 jewel movement.
($34.00) EACH **$16.80**



W128
Dressy and Trustworthy Nurses Watch, Sweep Second hand and easy to read dial, 10K Yellow rolled plate case, Non Corrosive steel back, adjustable black silk cord, 17 jewel unfailing WESTCHESTER movement.
($45.00) EACH **$22.25**

- ☆ **Fully Guaranteed**
- ☆ **Westchester means quality and precision**
- ☆ **Every Westchester watch delivered in appealing gift box**

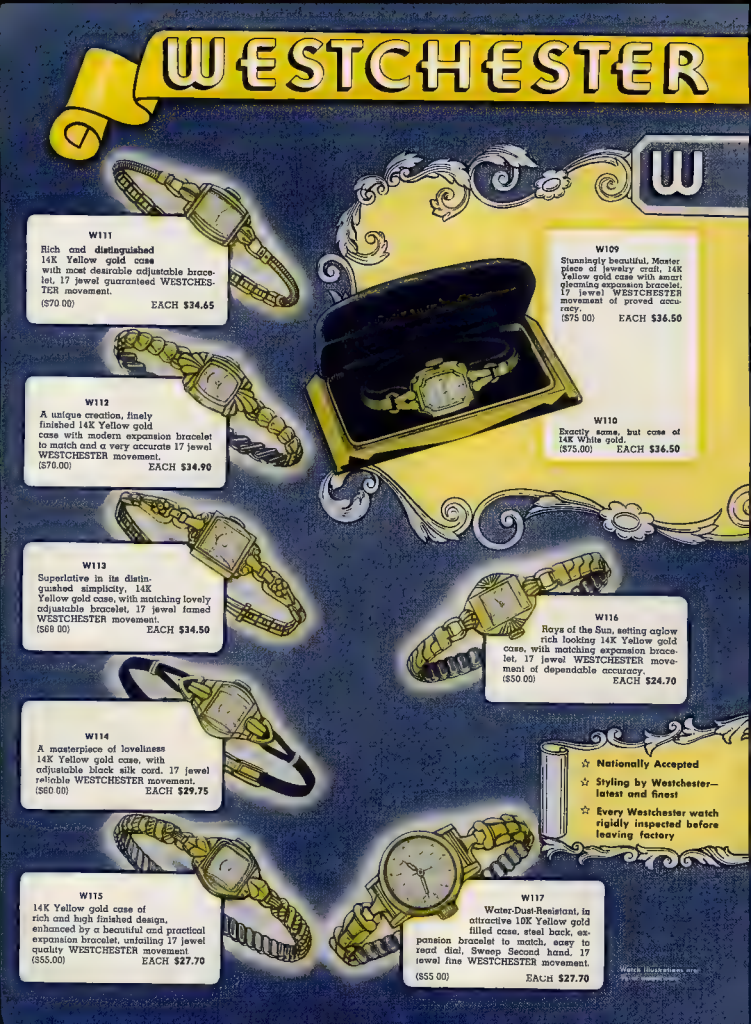
W129
Trim Nurses Watch, Sweep Second hand, 10K Yellow rolled gold plate case, steel back, expansion bracelet, 17 jewel WESTCHESTER movement.
($43.00) EACH **$21.80**

W130
Same with 7 jewel movement.
($38.00) EACH **$18.80**

W126
Built for service, 10K Yellow rolled gold plate case, steel back, adjustable bracelet, 17 jewel WESTCHESTER movement.
($37.50) EACH **$18.90**

W127
Same with 7 jewel movement
($29.00) EACH **$14.95**

WESTCHESTER



W111
Rich and distinguished 14K Yellow gold case with most desirable adjustable bracelet, 17 jewel guaranteed WESTCHESTER movement.
($70.00) EACH **$34.65**

W112
A unique creation, finely finished 14K Yellow gold case with modern expansion bracelet to match and a very accurate 17 jewel WESTCHESTER movement.
($70.00) EACH **$34.90**

W113
Superlative in its distinguished simplicity. 14K Yellow gold case, with matching lovely adjustable bracelet, 17 jewel famed WESTCHESTER movement.
($68.00) EACH **$34.50**

W114
A masterpiece of loveliness 14K Yellow gold case, with adjustable black silk cord. 17 jewel reliable WESTCHESTER movement.
($60.00) EACH **$29.75**

W115
14K Yellow gold case of rich and high finished design, enhanced by a beautiful and practical expansion bracelet, unfailing 17 jewel quality WESTCHESTER movement.
($55.00) EACH **$27.70**

W109
Stunningly beautiful, Master piece of jewelry craft, 14K Yellow gold case with smart gleaming expansion bracelet, 17 jewel WESTCHESTER movement of proved accuracy.
($75.00) EACH **$36.50**

W110
Exactly same, but case of 14K White gold.
($75.00) EACH **$36.50**

W116
Rays of the Sun, setting aglow rich looking 14K Yellow gold case, with matching expansion bracelet, 17 jewel WESTCHESTER movement of dependable accuracy.
($50.00) EACH **$24.70**

- ☆ **Nationally Accepted**
- ☆ **Styling by Westchester—latest and finest**
- ☆ **Every Westchester watch rigidly inspected before leaving factory**

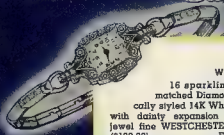
W117
Water-Dust-Resistant, in attractive 10K Yellow gold filled case, steel back, expansion bracelet to match, easy to read dial, Sweep Second hand, 17 jewel fine WESTCHESTER movement.
($55.00) EACH **$27.70**

Watch illustrations are of actual watches

WESTCHESTER

Diamond Watches of Distinction

- ☆ **Nationally Accepted**
- ☆ **Fully Guaranteed**
- ☆ **Every Diamond Watch fitted with famed Westchester 17 jewel movement for maximum dependability**
- ☆ **Every Westchester watch rigidly inspected before leaving factory**
- ☆ **Westchester means quality and precision**
- ☆ **Styling by Westchester—latest and finest**
- ☆ **Every Westchester watch delivered in appealing gift box**



W103

16 sparkling, superbly matched Diamonds in classically styled 14K White gold case, with dainty expansion bracelet, 17 jewel fine WESTCHESTER movement.
($190.00) EACH **$95.00**

W104

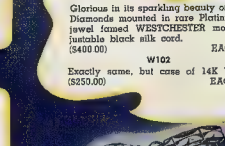
10 glittering Diamonds set in distinctive looking 14K White gold case, 17 jewel dependable WESTCHESTER movement, adjustable black silk cord.
($160.00) EACH **$79.00**

W105

6 fiery Diamonds, adorning a superbly styled 14K White gold case, with unusual adjustable bracelet, 17 jewel excellent WESTCHESTER movement.
($120.00) EACH **$59.00**

W106

2 brilliant Diamonds in an exquisitely attractive 14K Yellow gold case with black adjustable silk cord, 17 jewel WESTCHESTER movement of tested accuracy.
($60.00) EACH **$29.95**

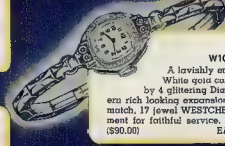


W101

Glorious in its sparkling beauty of 20 flashing Diamonds mounted in rare Platinum case, 17 jewel famed WESTCHESTER movement, adjustable black silk cord.
($400.00) EACH **$195.00**

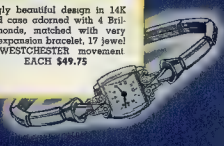
W102

Exactly same, but case of 14K White gold.
($250.00) EACH **$125.00**



W107

A lavishly engraved, 14K White gold case set across by 4 glittering Diamonds, modern rich looking expansion bracelet to match, 17 jewel WESTCHESTER movement for faithful service.
($90.00) EACH **$44.50**

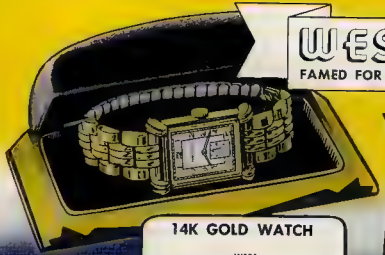


W108

Enchantingly beautiful design in 14K White gold case adorned with 4 Brilliant Diamonds, matched with very attractive expansion bracelet, 17 jewel accurate WESTCHESTER movement
($100.00) EACH **$49.75**

WESTCHESTER

FAMED FOR ACCURACY AND MODERN DESIGN



14K GOLD WATCH

W131

A watch of distinction in rich 14K Yellow gold case of classic design, enhanced by a masculine locking expansion bracelet. 17 jewel precision made WESTCHESTER movement.
($95.00)

EACH **$45.50**

CALENDAR WATCH

W132

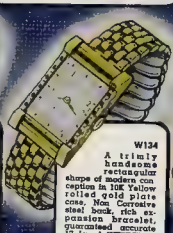
Ultra-modern CALENDAR watch in gleaming white indestructible stainless steel case with smart stainless steel expansion bracelet, large easy to read dial indicating the day of the week, the date of the month, the month, and the phase of the Moon, finely finished 17 jewel WESTCHESTER movement assuring enduring accuracy. ($75.00)

EACH **$38.50**

W133

Superbly designed case in all 10K Yellow gold filled, mirror finished, with beautifully matched eye-appealing expansion bracelet, 17 jewel guaranteed WESTCHESTER movement. ($65.00)

EACH **$29.70**



W134

A trimly handsome rectangular shape of modern conception in 10K Yellow rolled gold plate case, Non Corrosive steel back, rich expansion bracelet, guaranteed accurate 17 jewel WESTCHESTER movement. ($50.)

EACH **$24.50**

W135

Outstanding by its design of masculine simplicity. 10K Yellow rolled gold plate case, Non Corrosive steel back, handsome gleaming expansion bracelet to match, 17 jewel WESTCHESTER movement of proved accuracy. ($40.00)

EACH **$19.80**

W136

10K Yellow rolled gold plate case, steel back. 17 jewel WESTCHESTER movement; leather strap. ($35.00)

EACH **$17.75**

W137

Same watch, 7 jewels. ($27.50)

EACH **$13.75**

SELF-WINDERS

W138

SELF WINDER, 10K Yellow gold filled with Non Corrosive stainless steel back, ultra-modern expansion bracelet, finely timed, Shock Resistant 17 jewel WESTCHESTER movement, easy to read dial with large Sweep Second hand. ($80.00)

EACH **$38.85**

W139

SELF-WINDER, WATER RESISTANT, 10K Yellow gold filled case, steel back, 17 jewel, Shock Resistant WESTCHESTER movement, luminous figures, Sweep Second hand, leather strap. ($75.00)

EACH **$34.80**

W140

Same with stainless steel case. ($67.50)

EACH **$33.55**

WATER-RESISTANT WATCHES

W141

WATER-RESISTANT, 10K Yellow gold filled case, Steel back, expansion bracelet, radium figures, Sweep Second hand, Shock Resistant 17 jewel WESTCHESTER movement ($60.00)

EACH **$29.90**

W142

Same, stainless steel case. ($50.00)

EACH **$25.75**

W143

A Service watch, WATER RESISTANT 10K Yellow rolled gold plate case, Steel back, 7 jewel WESTCHESTER movement. ($35.00)

EACH **$17.75**

W144

Same, chrome case. ($29.00)

EACH **$14.75**

Watch illustrations are ½ of actual size.

"SILENT HOIST" EQUIPMENT—A COMPLETE LINE

Electric, Gas. & Diesel Capstans-Gypsy Winches-Car Pullers and Barge Movers

"Silent Hoist" Equipment Is Worm Gear Driven—A Chrome-Nickel Steel Ground Worm Mounted on Ball Bearings, Meshing With a Nickel-Bronze Worm Gear, Running in a Continuous Bath of Oil in a Totally Enclosed Housing.

Fig. 601—Style M Electric Capstan, Car Puller, Gearing Integral with Motor. Totally enclosed motor and gearing, weatherproof for outdoor use. Capacities are Starting Pull at about 45 ft. per min.

Model	Capstan Inches	Motor H.P.	Capacity, Lbs.
TM-7½AC	8x13	7½	6,000
GTM-15AC	10x15	15	12,000

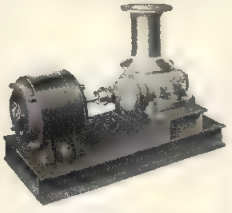


Fig. 602—Style Y Electric Capstan—Standard Motor Coupled to Gearing on Welded Steel Bedplate. Totally enclosed motor and gearing weatherproof for outdoor use. Capacities are Starting Pull at about 45 ft. per min.

Mode	Capstan, Inches	Motor H.P.	Capacity, Lbs.
KY-3AC	4½x 8	3	1,500
TY-7½AC	8 x15	7½	6,000
GTY-15AC	10 x15	15	12,000
MTY-25AC	12 x16	25	18,000
NTY-40AC	13 x20	40	22,000
LTY-50AC	15 x24	50	30,000

Fig. 603—Style X Electric Capstan—Motor, Drive and Gearing enclosed in Welded Steel Housing weatherproof for outdoor use. Capacities are Starting Pull at about 45 ft. per min.

Model	Capstan, Inches	Motor H.P.	Capacity, Lbs.
KX-3AC	4½x 8	3	1,500
TX-7½AC	8 x15	7½	6,000
GTX-15AC	10 x15	15	12,000
MTX-25AC	12 x16	25	18,000
NTX-40AC	13 x20	40	22,000
NSX-40AC	24 x30	40	35,000

Fig. 604—Portable Electric Capstan. All machines listed under Fig. 602 can be furnished mounted on ball-bearing swivel Caster Wheels and with Screw-pin Shackles or other lashing for portable use. Shown with Electric Starter mounted and wired to motor, complete, ready for operation.

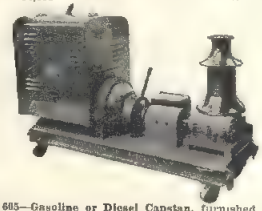


Fig. 605—Gasoline or Diesel Capstan, furnished with all accessories complete and ready for operation. Shown mounted on Swivel Casters optional for portable use. Other capacities and speeds available to suit requirements.

Model	Capstan	Engine	Capacity, Lbs.
K-4G	4½"x 8"	4 H.P.	1,500 @ 35 Ft. / Min.
T-20G	8" x15"	20 H.P.	5,000 @ 45 Ft. / Min.
GT-35G	10" x15"	35 H.P.	10,000 @ 45 Ft. / Min.

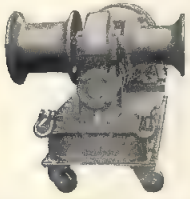


Fig. 606—Electric Double Gypsy Winch, enclosed worm geared. Shown mounted on Swivel Casters, optional for portable use. Other capacities and speeds available to suit requirements. Capacities are at about 45 ft. per min.

Model	Gypsy Head, Inches	Motor H.P.	Capacity, Lbs.
KHH	5 x 7 or 8x 7	3	1,500
HH	6½x 7½ or 8x11	7½	6,000
WW	8 x11 or 12x13	15	12,000

Fig. 607—Worm Gear Drives, totally enclosed speed reduction units.

Vertical Shaft Mode	Horizontal Shaft Mode	Gear Ratio	H.P. Range
KD	KHD	26 to 1	1 to 3
TDS	TADS	78 to 1	3 to 10
TD1	TAD1	26 to 1	3 to 10
GTDS	GHDS	120 to 1	5 to 15
GTD1	GHD1	40 to 1	5 to 20
MTS	WDS	120 to 1	10 to 25
MTD1	WD1	30 to 1	15 to 40

Other Ratios and Larger Sizes Available

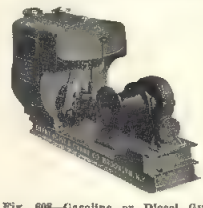


Fig. 608—Gasoline or Diesel Gypsy Winch, furnished with all accessories complete and ready for operation. Single Gypsy as shown, or Double Gypsy. Other capacities and speeds available to suit requirements.

Model	Gypsy Head, Inches	Engine H.P.	Capacity, Lbs. @ Ft. Min.
KH-4G	5 x 7	4	1,500 @ 35
H-20G	6½x 7½	20	5,000 @ 45
W-35G	8 x11	35	10,000 @ 45

More complete catalog or information on any equipment shown is available, on request.

185-1-49

"SILENT HOIST" EQUIPMENT—A COMPLETE LINE

Electric, Gas, & Diesel Drum Winches & Hoists - Car Pullers & Barge Movers

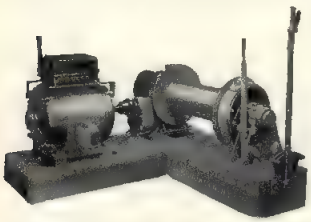


Fig. 609—Electric Drum Winch or Hoist, Car Puller, etc. Enclosed Worm Geared, with Jaw-Clutch or Hydraulic Friction-Clutch free-spooling drum. Capacities are with first layer of cable on bare drum at about 30 ft. per min. Other capacities and speeds are available to suit requirements.

Model— Jaw Clutch	Model— Friction Clutch	Motor H.P.	Capacity, Lbs.
TA-7½AC	DB-7½AC	7½	6 000
TA-15AC	DB-15AC	15	12 000
WA-30AC	TW-30AC	30	24,000
NA-40AC	NW-40AC	40	30 000
FHA-50AC	TWS-50	50	40,000

Fig. 611—Electric Drum Winch or Hoist, Car Puller, etc. Enclosed Worm-Geared, Keyed-Drum Power-Reversing, with Machine-grooved Drum to hold cable in one layer, and with automatic electric brake. For sizes and capacities see listing under Fig. 610. Other capacities and speeds are also available to suit requirements.

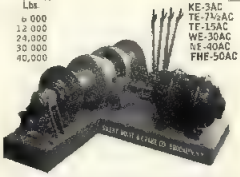


Fig. 612—Electric Double-Drum Winch. Drums-in-Line, enclosed worm geared. Drums provided with jaw-clutches power-reversing, or with friction clutches. Capacities are with first layer of cable on bare drum, on either drum, or total with both drums simultaneously, at about 30 ft. per min. Other capacities and speeds are available to suit requirements.

Model— Jaw Clutch	Model— Fric tion Clutch	Motor H P.	Capacity, Lbs.
TAA-7½AC	DBB-7½AC	7½	6,000
TAA-15AC	DBB-15AC	15	12,000
WAA-30AC	TWW-30AC	30	24,000
NAA-40AC	NWW-40AC	40	30,000
FHAA-50AC	TWWS-50	50	40,000

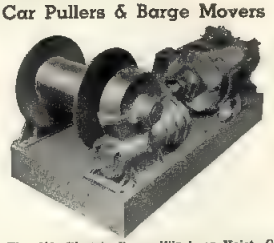


Fig. 610—Electric Drum Winch or Hoist, Car Puller, etc. Enclosed Worm Geared Keyed-Drum Power-Reversing Electric brake optional. Capacities are with first layer of cable on bare drum at about 30 ft. per min. Other capacities and speeds are available to suit requirements

Model	Motor H.P.	Capacity, Lbs.
KE-3AC	3	2,000
TE-7½AC	7½	6,000
TE-15AC	15	12,000
WE-30AC	30	24,000
NE-40AC	40	30 000
FHE-50AC	50	40 000

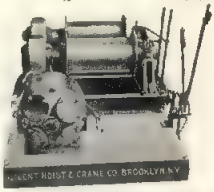


Fig. 613—Double-Drum Winch, Drums in Tandem Electric, Gasoline or Diesel. Each drum with its own independent worm drive, and drums keyed or with jaw or friction clutches. For sizes and capacities see listings under Figs. 612 and 615. Other capacities and speeds are also available to suit requirements.

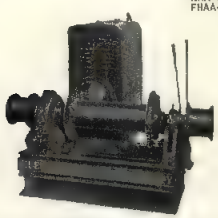


Fig. 614—Gasoline or Diesel Drum Winch or Hoist, enclosed worm geared with friction clutch or power-reversing. Furnished with all accessories complete and ready for operation. Other capacities and speeds available to suit requirements.

Model— Friction Clutch	Model— Power-Reversing	Engine H.P.	Capacity and Speed, Bare Drum, Lbs. @ Ft./Min.
KW-4G	FAE-4G	4	1,000 @ 80
DB-20G1	FAE-20G1	20	2 500 @ 170
DB 20G2	FBE-20G2	20	5 000 @ 85
TW-35G	FBE-35G	35	7 000 @ 100
TW-60G		60	7 000 @ 200

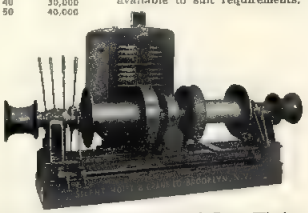


Fig. 615—Gasoline or Diesel Double-Drum Winches, enclosed worm-geared Drums in Line and provided with friction clutches or power reverse. Capacities are on either drum, or total with both drums simultaneously. Other capacities and speeds are available to suit requirements.

Model— Friction Clutch	Model— Power-Reversing	Engine H.P.	Capacity and Speed, Bare Drum, Lbs @ Ft./Min.
KWW-4G	2FAE 4G	4	1 000 @ 80
DBB 20G1	2FAE 20G1	20	2 500 @ 170
DBB 20G2	2FBE-20G2	20	5 000 @ 85
TWW 35G	2FBE-35G	35	7 000 @ 100
TWW-60G		60	7 000 @ 200

More complete catalog or information on any equipment shown is available, on request.

185-2-49

"SILENT HOIST" TRUCK EQUIPMENT

Winches, Cranes, Pole Derricks and Towers for Motor Trucks

Furnished With Power Take-Off and Installation Parts for All Makes of Trucks

Fig. 616—Capstan Winch, for use with manila rope.

Model	Capstan, Inches	Space Reqd., Inches	Capacity, Lbs. @ Ft. Min.
K	4½x 8	13	2,500 @ 40
T	8 x15	16	6 000 @ 50
GT	10 x15	20	12,000 @ 50

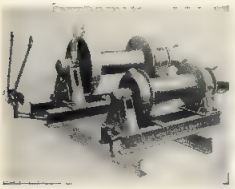


Fig. 617—Drum Winches, for use with cable. Jaw Clutch or Keyed-Drum Power Reversing or Friction Clutch.

Model	Type	Capacity, Lbs.	Drum Size, Ins.	Weight, Lbs.
TE	*	12,000	8	600
CTE	*)	16,000	6	600
CWE	(*)	30,000	8	1200
TA	(†)	12,000	8	650
CTA	†,	16 000	6	650
WA	†,	24 000	10	1650
CWA	(†)	30 000	8	1650
CNA	(†)	50,000	8	2700
DB	(†)	10 000	7	700
TW	†)	24 000	10	1700

*—Keyed-Drum
(†)—Friction Clutch
Jaw Clutch

Fig. 618—Double Drum Winches, Jaw Clutch or Keyed Drums Power-Reversing, or with Friction Clutches

Model	Type	Capacity, Lbs	Drum Size, Ins.	Weight, Lbs
2FAE	*	6 000	6	1200
2FBE	*	12 000	8	200
KWW	*	2 000	4	720
DBB	(†)	10,000	7	1[illegible]
TWW	†	24 000	10	2800
TAA	†)	12 000	8	1100
WAA	(†)	24,000	10	2700

(*)—Keyed-Drum
(†)—Jaw-Clutch
(†)—Friction Clutch

POWER SWING BOOM CRANES

Fig. 619—Swing Boom Crane—Available for All Makes of Motor Trucks. Power Operated from Truck Engine.

Model	Capacity	Hoist Load	Top Boom	Swing Boom
Q1	1 ton @ 6 Ft.	Power	Manua	Manual
Q2	2 tons @ 6 ft.	Power	Manua	Manual
Q3	3 tons @ 6 ft.	Power	Manua.	Manual

Model	Capacity	Hoist Load	Top Boom	Swing Boom
QP5	5 tons @ 6 ft.	Power	Power	Power
Q5	5 tons @ 6 ft.	Power	Power	Power
Q10	10 tons @ 6 ft.	Power	Power	Power
Q20	10 tons @ 12 ft.	Power	Power	Power

Fig. 620—Swing Jib Cranes, Power Load-Hoist and trolley, manual or power swing

Model—Manual Swing	Model—Power Swing	Capacity at 6 Ft. Radius
J1	JP1	1 ton
J2	. .	2 tons
J3	JP3	3 tons
. .	JP5	5 tons

Fig. 622—Power Swing Boom Crane, Mode. QP2X, with Orange Peel Bucket, power operated from truck motor, for Catch-Basin and Sewer Cleaning.

Fig. 621—Truck Tower, Telescoping Tubular Type furnished in 2 or 3 Sections for required height, with Plain or Revolving Platform. Elevation up to 30 ft.

Fig. 623—Tripod Pole Setting Derricks (operated by any of the Winches listed for Fig 617) Cast-Steel fittings, single piece or telescopic side legs, and plain or swivel head-sheave assembly.

Model	Capacity	Weight
TR[illegible]	35 ft. poles	350 lbs.
TR1	45 ft. poles	500 lbs.
TR2	60 ft. poles	560 lbs.

"SILENT HOIST" TRACTOR EQUIPMENT

Capstans, Gypsy Winches, Single and Double Drum Winches

For All Makes of Wheel and Crawler Tractors and the KRANE KRAWLER

Fig. 626 (to left) and **Fig. 627** (to right)—Capstans, for all Wheel and Crawler Tractors.

Model	Capac. and Speed, Lbs. @ Ft., Min.	Capstan, Inches	Approx Power Reqd., H.P
KT	2,500 @ 40	4½x 8	7½
TT	6,000 @ 50	8 x15	18
GTT	12,000 @ 50	10 x15	36
MTT	18,000 @ 50	11 x18	54

Fig. 628 (to left) and **Fig. 629** (to right)—Gypsy Winch, for all Wheel and Crawler Tractors.

Model	Capac and Speed, Lbs. @ Ft., Min.	Gypsy Size, Inches	Approx. Power Reqd., H.P.
KHST	2,500 @ 40	8 x 7	7½
H6T	6,000 @ 50	6½x 7½	18
W8T	12,000 @ 50	8 x10½	36

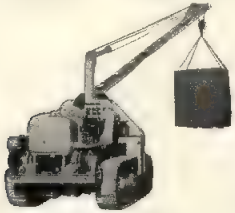
Figs. 630 and **631**—Single Drum Winches or Hoists, for all Wheel and Crawler Tractors.

Model	Type	Capacity	Approx. Power Reqd.	Weight
DBT	Friction Clutch	12,000 lbs. on 7" drum	40 H.P.	900 lbs.
TW14T	Friction Clutch	24,000 lbs. on 10" drum	75 H.P.	1,800 lbs.
FAET	Keyed Reversing	6,000 lbs. on 6" drum	15 H.P.	600 lbs.
FBET	Keyed Reversing	12,000 lbs. on 8" drum	40 H.P.	700 lbs.
FAT	Jaw Clutch-Revers.	6,000 lbs. on 6" drum	15 H.P.	700 lbs.
FBT	Jaw Clutch-Revers.	12,000 lbs. on 8" drum	40 H.P.	800 lbs.
WA14T	Jaw Clutch-Revers.	24,000 lbs. on 10" drum	75 H.P.	1,800 lbs.
GWAT	Jaw Clutch-Revers.	30,000 lbs. on 8" drum	95 H.P.	3,000 lbs.

Fig. 632—Double Drum Winches or Hoists, for all models of Tractors, with Friction Clutches or Power-Reversing, for general utility or for Dragline Scraper Service.

Model	Capacity and Speed	Approx. H.P.
*DBBT	12,000 lbs. at 50 fpm.	40
*TWW14T	24,000 lbs. at 50 fpm.	75
†DBB7T4	6,000/3,000 lbs. at 85/170 fpm.	40
†TWW9T8	12,000/6,000 lbs. at 85/170 fpm.	95

*Gen. Utility Type.
†Drag Line Type.



Figs 633 and 634

Krane Krawler, full powered swing boom Crane mounted on standard make of gasoline or Diesel crawler tractor.

Model	Capacities At 6 ft. Radius	At 9 ft. Radius	At 12 ft. Radius	Booms Std.	Other Lengths	Weight Complete
CA	5,000 lbs.	2,500 lbs.	1,600 lbs.	22 ft.	17 ft., 20 ft., 12/18 ft., 13/20 ft.	15,000 lbs.
CAX	10,000 lbs.	4,500 lbs.	3,000 lbs.	15 ft.	26 ft., 24 ft., 12/18 ft., 15/22 ft.	20,000 lbs.
CAY	20,000 lbs.	13,500 lbs.	10,000 lbs.	18 ft.	24 ft., 30 ft., 15/22 ft., 19/31 ft.	35,000 lbs.

185-4-45

"SILENT HOIST" EQUIPMENT—A COMPLETE LINE

KRANE KAR... RAIL-O-ROAD KRANE... STEVE KRANE.. LIFT-O-KRANE

Fig. 635—Krane Kar can be furnished provided with either 20" 26" or 28" Electric Magnet, with independent gas electric generator, all accessories and control complete.

KRANE KAR
The Original Swing Boom Mobile Crane With Front-Wheel Drive and Rear-Wheel Steer.

Fig. 636—Krane Kar, Mobile Swing Boom Crane, Gasoline or Diesel engine drive, solid or pneumatic tires, 11 ft. to 35 ft. or Telescopic Booms.

Model	Capacity
AJ	3,000 lbs
A	5,000 lbs
AX	10,000 lbs
AY	20,000 lbs

Fig. 637—Krane Kar equipped with ⅜-yd. 2-line Clamshell Bucket with extra Drum Winch for holding line, and with weighted tag line to keep bucket from spinning.

Fig. 638—Krane Kar can be provided with Orange Peel Bucket and accessories complete, making it the ideal Catch-Basin and Sewer Cleaning Machine for Municipalities.

Fig. 639—Rail O-Road Krane Kar is the regular Krane Kar provided with both Rubber-Tired and Retractable Flanged Wheels for operation ON tracks or OFF tracks.

Fig. 640—STEVE KRANE, a modern Stevedoring Crane especially designed for fast cargo and freight handling. Gasoline or Diesel. Solid or pneumatic tires, 2 sizes. Model CJ of 1-2 tons cap. and Model CK 5 tons cap. Also available—Model CY designed for unloading 5-ton bundles of steel from RR cars and motor trucks.

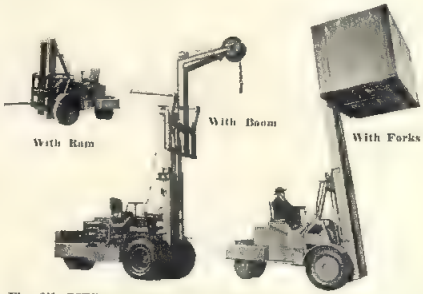


Fig. 641—LIFT-O-KRANE, a 3-in 1 Combination Fork Truck, Boom Crane, Ram Truck for handling pallet loads, hook loads, coil loads, Hydraulic lift for Fork unit. Independent winch-hoist for Crane. 2 sizes 5 tons and 7½ tons cap.; Gas or Diesel; solid or pneumatic tires

More complete catalog or information on any equipment shown is available, on request.

185-5 48

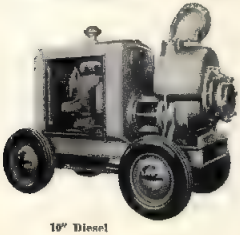
JAEGER
"SURE-PRIME" PUMPS

A complete line of centrifugal pumps for every construction purpose.

De-Watering, Transfer, Pressure

1½" Bantam

3" Electric



10" Diesel

Gasoline and Diesel engine and electric motor powered—portable and stationary, Jaeger engineered and precision-built to prime fast, hold that prime, and pump dependably under toughest service conditions.

"Sure-Prime" De-Watering Pumps—Engine Driven

Model 1½AP—1½" Bantam, Aluminum. Weighs 60 lbs., 5100 gph.

Model 2PAF—2" Aluminum, Weighs 105 lbs., 9000 gph.

Model		GPH.	Model		GPH.
2XP	2" Utility	7,000	6P	6" Heavy Duty	90,000
2P	2" Heavy Duty	10,000	6PD	6" H-D Diesel	90,000
3XP	3" Utility	15,000	8P	8" Heavy Duty	125,000
3P	3" Heavy Duty	20,000	8PD	8" H-D Diesel	125,000
4XP	4" Utility	30,000	10P	10" Heavy Duty	228,000
4PW	4" Heavy Duty	40,000	10PD	10" H-D Diesel	240,000
4P	4" Heavy Duty	40,000	3AY	3" Diaphragm	3,000

"Sure Prime" Electric Motor Driven Pumps

Model		Hp.	Model		Hp.
1½PE	1½" Light Utility	¾	3PE	3" Heavy Duty	7½
1½PE-1	1½" Light Utility	1	3P-2E	3" Heavy Duty	10
2XPE	2" Light Utility	1½	4XPE	4" Utility	15
2PE	2" Heavy Duty	3	4PE-20	4" Heavy Duty	20
2XPE-5	2" High Head	5	6PE-25	6" Heavy Duty	25
3XPE	3" Utility	3	8PE-40	8" Heavy Duty	40
			10PE-40	10" Heavy Duty	40

Vertical Caisson Pumps—(Pass 24" Manhole)

Model 2XPVE-5–2", 5 hp. **Model 3PVE–3"**, 7½ hp. **Model 3P2VE–3"**, 10 hp.

Jaeger High Pressure Pumps

Air-Cooled Engines:

Model 2PAFH—2" Aluminum, 55 gpm. @ 60 psi.
Model 3PH —3" Heavy Duty, 350 gpm. @ 40 psi., 110 gpm. @ 90 psi.
Model 3CPH —3" High Pressure, 420 gpm. @ 40 psi., 120 gpm. @ 130 psi.

Water-Cooled Engines:

Model 5CPH —4" to 6" suction, 900 gpm. @ 60 psi., 100 gpm. @ 275 psi.
Model 6PH —6", 1600 gpm. @ 20 psi., 800 gpm. @ 60 psi.
Model 8PH —8", 2050 gpm. @ 20 psi., 1080 gpm. @ 60 psi.

Jaeger Well Point Systems—Used on many of America's biggest de-watering jobs. Consult us for complete plans and systems.

25-1-51

JAEGER COMPRESSORS

Two-Stage, Air-Cooled

75 to 600 cfm Portables

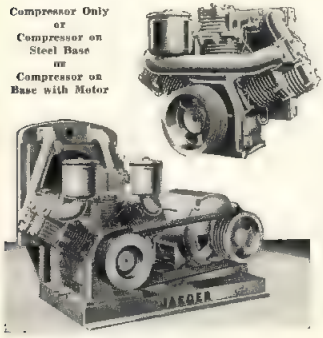
56 to 315 cfm Stationaries

Jaeger "New Standard" Portable Compressors are available in six sizes and capacities:

75, 125, 185, 250, 365 and 600 cfm. at 100-lb.

They completely outmode old-standard, ordinary 60, 105, 160, 210, 315 and 500 cfm. compressors—furnish full 90-lb. air pressure to tools, not weak 70-lb. air. They make tools hit harder and faster do 30% to 40% more work daily. Or, you can operate more tools—for example, 3 medium breakers from a 125, instead of 2 from an ordinary 105. Yet, model for model, they weigh no more, cost no more and transport just as easily. And, "Fuel Miser" engine speed control assures their using no more fuel when their extra capacity is not being used. Famous Jaeger 2-stage, balanced-W compressors—gasoline and Diesel engine driven—2 and 4 wheels.

Compressor Only
or
Compressor on Steel Base
or
Compressor on Base with Motor

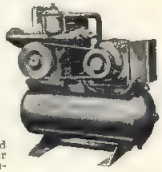


JAEGER "AIR-PLUS" STATIONARY COMPRESSORS

The same efficient, 2-stage, balanced -W compressor as in famous Jaeger Portables—designed for V-belt drive by electric motors or engines—also direct motor drive.

56 to 315 cfm at 100 pounds pressure

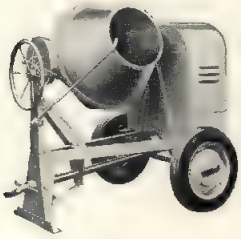
Valves are 75% to 100% larger than ordinary ones. Micro-honed cylinders. Ultra-lapped valves and seats. Divided and finned cylinder heads. Positive, force-feed lubrication. These and many other features guarantee more air, cooler air, at lower cost and with greater dependability. Air-cooled means no water supply problems. Furnish your own base and power, or buy them complete with base and motor.



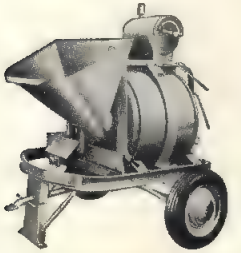
There's a Jaeger "Packaged 60"—compressor, motor and air receiver, with all electrical controls. 60 cfm. of 100-lb. air.

25-2-51

JAEGER MIXERS, HOISTS and TOWERS



3½-S TILTER



3½-S NON-TILT WITH SHAKER HOPPER

"POWER HOE"

Jaeger "Power Hoe" Plaster-Mortar Mixer is a one-bag, 6-cu.-ft. capacity mixer, handles up to 40 shovels of sand. It keeps crews of 18 to 30 men stepping lively with a steady supply of thoroughly mixed, high-strength plaster or mortar that handles easier, lays up faster and requires no breaking down on the hawk. An easy loading, fast-discharging mixer that saves time, materials and labor costs. Air-cooled gasoline engine powered. Hoists in average lift cage—passes through 33" doorways.

11 S MIXER WITH SKIP-SHAKER POWER LOADER

Jaeger Concrete Mixers are world known for fast loading, fast discharge—give users more batches daily, more production per wage dollar. Five models include:

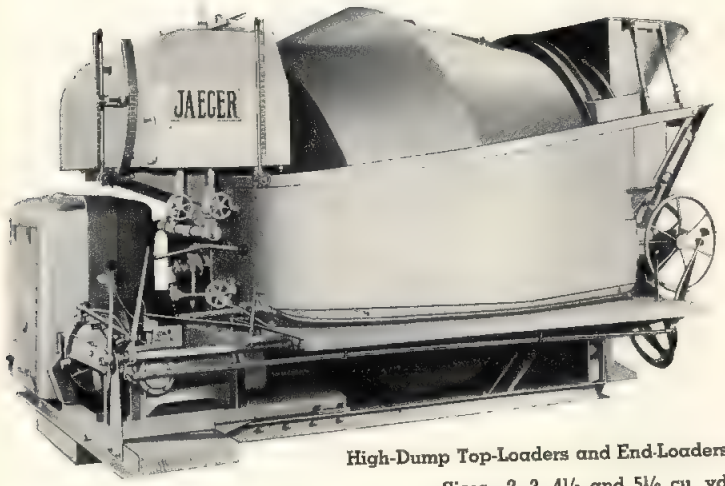
Little 3½-S Tilter has patented V-bottom drum that doubles mixing action, turns on Timken bearings, tilts easily and accurately for fast loading and discharge. The 3½-S Non-Tilt, with famous "Dual Mix" drum, has batch hopper that loads while previous batch mixes, then shakes load into drum fast and clean. You mix 12 to 15 more yards per day with it. Jaeger 6-S, 11-S and 16-S Mixers have Skip-Shaker Power Loaders that load while previous batch mixes, then rise and shake loads into drums—no pounding, no waiting, more concrete per day. "Dual-Mix" drums give double-thoro, criss-cross mixing and 7-second discharge; have heavy, machined steel tracks that ride on carwheel-type rollers with Timken bearings. Accurate metering water tanks, automotive transmissions, lifetime clutches. Two and four wheels gasoline engine or electric motor power.

Self-Raising Tower and Hoist

Goes to the job on truck or transporter. Two men assemble it on the ground in two hours. Then its 17-hp. hoist raises it to position. Handles 1-ton loads with complete safety. Standard lifting height, 31½'. With extra sections 41½', 51½' and 61½'. Available with 6'9"x6'6" material platform or 11 cu ft concrete bucket, or both — quickly interchangeable on the job. Saves erecting time, loss and waste of wooden materials, and man hours. Places materials on upper floors at tremendous labor saving. Can be moved about the job on its skid base.

23 8-51

JAEGER TRUCK MIXERS



High-Dump Top-Loaders and End-Loaders.

Sizes—2, 3, 4½ and 5½ cu. yd.

These Jaeger "High-Dump" Concrete Mixers offer new features and improvements which the ready-mixed concrete industry has wanted. They're lighter by 600 to 1600 pounds—help you meet strictest load limitations without sacrificing payload. Yet, they're sturdier in all vital parts than older, heavier mixers. They're 9 to 13 inches shorter—have shorter cab to axle requirements, mount on shorter wheelbase trucks. And the load center is farther forward for better load balance and distribution of weight, longer truck and tire life. They're faster—in every way; which means more trips, more payloads per day. For instance, it takes only 10 seconds per yard to end-load dry materials through the new Jaeger Hopper, with drum turning at "high" charging speed. Wet materials charge in one quick drop through the new, quick-opening "toggle-lock" top door. One turn of a handwheel retracts the instant-opening hopper or discharge door opens it 9 inches, for completely free, fast discharge. Fast drum speed, provided by Jaeger 2-speed transmission, plus low-angle discharge cone and continuous spiral blades, discharge 4-inch slump concrete at 20-25 seconds per yard—1-inch slump at 60 seconds per yard.

Fastest Charging—By one-shot top loading, or through big-throated hopper and drum opening on end loaders, plus high charging speed of spiral blade drum.

Fastest Water Distribution—60-lb. pressure through positively clog-proof water jet. A Jaeger "Sure-Prime" Pump jets accurately-metered water into the mass of material at 100 gpm.

More Thorough, Dual-Mixing—Jaeger's continuous spiral mixing blades and throw-back re-mixing blades, plus high and low mixing speeds of the improved-shape drum of the "High-Dump", guarantee completely thorough mixing of a better-handling, higher strength product which meets specifications exactly.

Spider Drum Drive—No heavy bull gear, no costly and troublesome chain drive—no problem of adjustments or alignment. Design assures an always self-aligning drum, with drive that is rugged without bulk, efficient and trouble-free in its simplicity.

One-Unit Power Plant and Transmission—Engine, clutch, automatic brake, and 2-speed gear box are all mounted on a single frame—quickly removable as a unit. Flexible chain drive to final reduction gear means positive and permanent alignment of all gears. Fluid drive is also available, if you want it.

As Agitators—These Jaeger "High-Dumps" have capacities of 3, 4¼, 6⅛ and 7⅝ cu. yd.

Jaeger also builds "Low Charge" Truck Mixers in capacities up to 10 cu. yds.

2-4-51

JAEGER TYPE "X"
Diagonal-Screed Finisher

Quick-crown-change screeds. Turning a single lever changes screed crown easily, accurately.

Screeds hydraulically raised and lowered by flip of lever. Machine stands still to iron joints.

Banked levers control traction and screed speeds, screed lift and steering.

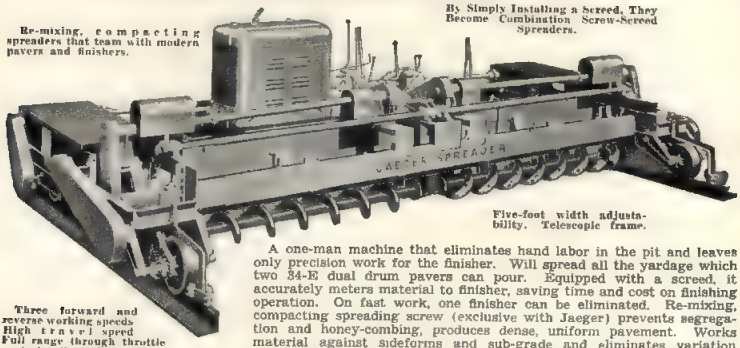
Operator quickly swings screed to desired angle with large handwheel.

A concrete finisher engineered to match the mass production of today's big dual-drum pavers—and do a better job of finishing! Job-tested and proved by leading contractors. Its front screed is transverse, its rear screed pivots in either direction to meet the material diagonally (may be used in transverse position, too). Type "X" produces a far more accurate finish than possible with any transverse finisher because its diagonal screed meets the material at different angle than the transverse screed, slicing off the high spots, filling in the low ones. Finishes stiff mixtures fast and without tearing, saves extra passes. It finishes flush to upper forms on pitched slab and super-elevated curve work, because its diagonal screed moves the material uphill and compacts it solidly against the upper form. Greatly reduces carryback, saves 1 or 2 shovelers. Requires less work and equipment behind the finisher. Three working speeds forward and reverse, with a high travel speed. Powerful traction on all four wheels. Standard models offer 10' to 15' and 20' to 25' widths, both having 5' adjustability in 6" increments. Special widths—15' to 20' and 25' to 32'.

JAEGER CONCRETE SPREADERS

Re-mixing, compacting spreaders that team with modern pavers and finishers.

By Simply Installing a Screed, They Become Combination Screw-Screed Spreaders.



Five-foot width adjustability. Telescopic frame.

Three forward and reverse working speeds High travel speed Full range through throttle control Controls grouped. Easy clutch steering. Traction on all wheels.

A one-man machine that eliminates hand labor in the pit and leaves only precision work for the finisher. Will spread all the yardage which two 34-E dual drum pavers can pour. Equipped with a screed, it accurately meters material to finisher, saving time and cost on finishing operation. On fast work, one finisher can be eliminated. Re-mixing, compacting spreading screw (exclusive with Jaeger) prevents segregation and honey-combing, produces dense, uniform pavement. Works material against sideforms and sub-grade and eliminates variation between batches. Working range is from 3½" below the forms to 3" above them. The 10' to 15' model has vacuum controlled reversible screw—20' to 25' model features dual, reversible screws.

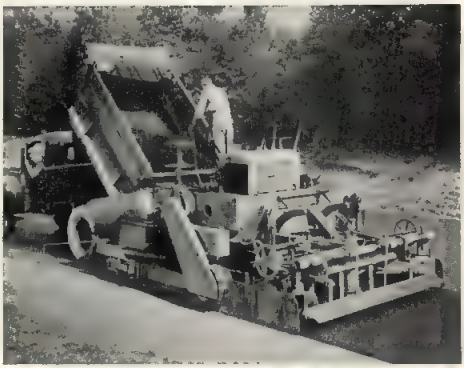
25-5-51

JAEGER
AGGREGATE SPREADER

Here's the first low-cost machine of its kind a self-propelled aggregate spreader that accurately lays base and surface aggregates, free-flowing bituminous mixtures, and plant-mixed stabilized soil, in widths up to 12'6". Can lay huge tonnage—up to 12" thickness in widths of 10' to 11' and with accurate strike-off. It will form any desired crown, also lay wedge course. Four-wheel or crawler drive is always on the sub-grade, never on the material being laid—thus, smooth, unmarred surfaces result. Quickly and easily adjustable for widths from 10' to 12½'. Simple insert plates extend the strike-off screed telescopic supporting tube extends runners. Block-off plates provide for laying lesser widths. Blender wings at the screed ends plus accurate feed of material, assure smoothly blended joints without costly hand work. Two of these machines, working in tandem can lay a 25' course with perfectly blended joint. Mobility makes this spreader an excellent machine for paving parking lots, driveways and similar areas: it will handle all base or surface materials usually employed. Ideal for base work on highways, airports, and both base and top of secondary roads. Available in 2 models to work with any size of truck. Automotive transmission and powerful Continental gasoline engine offer 12 to 100 fpm. forward speeds and ½ to 3½ mph. reverse travel speeds. Thus, the unit is self-transporting. An hydraulic ram lifts screed and long straightedge runners which support it, up to 5" for backing and maneuvering.

All traction is on the sub-grade. Long straightedge runners carry the strike-off screed and even out sub-grade irregularities.

JAEGER BP-5 BITUMINOUS PAVER



Jaeger BP-5 Paving Machine brings new precision, speed and low cost to bituminous paving of roads, streets and airports. Handles every type of hot or cold material in thicknesses up to 6" as fast as trucks can deliver. Lays widths from 5'6" to 12'6" without adding any parts. Permits easy, instant width changes—widens for curves without stopping. Automatically matches adjacent course, curb, gutter or grade line. Fast oscillating screeds work the material to a uniformly dense mat—no matter how difficult that material to handle. Paves flush to curbs and adjacent courses—insures perfectly matched and blended joints. Long straightedge runners carry the screeds independently of the rest of the machine, even out irregularities of the sub-grade. Powerful tractor crawlers which support the weight of the machine are always on the sub-grade, never on the newly-laid material. BP-5 easily lays 50 or more feet per minute of mat, 12'6" wide. Its big 5-ton hopper takes a truckload of material without spilling. Automotive type transmission gives 8 working speeds from 5 to 50 fpm., and 4 travel speeds from ½ to better than 2 mph. Screeds are heated by burn-proof hot-air blast. All screeds hydraulically lifted for clearance and transport. Quick crown changes are achieved by simple crank operation—2" convex to 1" concave.

Width changes between 8' and 12'6" (that take up to a half day on other pavers) require only a twirl of a handwheel on the BP-5. For widths less than 9', blockoff gates are closed easily.

25-6-51

Wrenches

Sherman—Klove

S-K Chrome Sockets

Chromium Plated and Polished

2N9471 Series

2N9486 Series

2N9411 Series

1/4-Inch Square Drive Sockets

Double Hex—12 Point

Stock No.	Mfr's. No.	Size In.	Ht. In.	Shipping lb Doz.	Fact. List EACH
2N 9471	40908	1/4	7/8	5/8	$0.58
2N 9472	40909	5/16	7/8	1/2	.58
2N 9473	40910	3/8	7/8	7/8	.58
2N 9474	40911	7/16	7/8	5/8	.58
2N 9475	40912	1/2	7/8	1	.58
2N 9476	40914	9/16	7/8	3/4	.58

Six in a box.

3/8-Inch Square Drive Sockets

Single Hex—6 Point

2N 9490	45112	3/8	7/8	1/2	$0.50
2N 9491	45114	7/16	7/8	7/8	.50
2N 9492	45116	1/2	7/8	5/8	.50

Double Hex—12 Point

2N 9493	45118	7/16	7/8	3/4	.50
2N 9494	45120	9/16	7/8	7/8	.63
2N 9495	45122	5/8	1	1 1/8	.50
2N 9496	45124	3/4	1	1 1/2	.85

Six in a box.

1/2-Inch Square Drive Sockets

Double Hex—12 Point

2N 9411	40114	3/8	1 1/16	1 1/2	$0.58
2N 9412	40116	7/16	1 1/16	1 1/2	.58
2N 9413	40118	1/2	1 1/16	1 1/2	.60
2N 9414	40119	9/16	1 1/16	1 1/2	.66
2N 9415	40120	5/8	1 1/16	2	.72
2N 9416	40122	11/16	1 1/16	2 1/2	.78
2N 9417	40124	3/4	1 1/16	3	.88
2N 9418	40125	13/16	1 1/16	3	.86
2N 9419	40126	7/8	1 1/16	3 1/2	.86
2N 9420	40128	15/16	1 1/16	4	.96
2N 9421	40130	1	1 1/16	4	.96
2N 9422	40132	1	1 1/16	5	.98
2N 9423	40134	1 1/16	1 1/16	6	1.10
2N 9424	40136	1 1/8	1 1/16	6	1.24
2N 9425	40138	1 3/16	1 1/16	6	1.30
2N 9426	40140	1 1/4	1 1/16	6	1.30

Six in a box

Double Square—8 Point

2N 9432	40105	9/16	1 1/16	3/4	$0.86
2N 9433	40106	11/16	1 1/16	7/8	.86

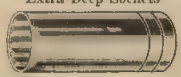
Six in a box.

3/4-Inch Square Drive Sockets—Double Hex—12 Point

Stock No.	Mfr's No.	Size In.	Ht. In.	Shipping lb Each	Fact. List EACH
2N 9440	47134	1 1/16	2	.57	$1.54
2N 9441	47136	1 1/8	2 1/16	.70	1.48
2N 9442	47138	1 3/16	2 1/16	.82	1.64
2N 9443	47140	1 1/4	2 1/16	.85	1.64
2N 9444	47142	1 5/16	2 1/16	1.06	1.64
2N 9445	47144	1 3/8	2 1/16	1.08	1.92
2N 9446	47146	1 7/16	2 1/16	1.14	2.24
2N 9447	47148	1 1/2	2 1/16	1.18	2.30
2N 9448	47150	1 5/8	2 1/16	1.40	2.38
2N 9449	47152	1 5/8	2 5/16	1.40	2.40
2N 9450	47154	1 11/16	2 1/16	1.52	2.22
2N 9451	47156	1 3/4	2 1/16	2.08	3.42
2N 9452	47158	1 13/16	2 1/16	2.10	3.76
2N 9453	47160	1 7/8	2 5/16	2.30	3.88
2N 9454	47164	2	2 1/16	2.44	4.50

Six in a box.

Extra Deep Sockets



3/8-Inch Square Drive—Single Hex—6 Point

Stock No.	Part No.	Size	Length In.	Shipping lb Each	Fact. List EACH
2N 9500	40412	3/8	1 7/8	.10	$0.88
2N 9501	40414	7/16	1 7/8	.12	.88
2N 9502	40416	1/2	1 7/8	.13	.88

Double Hex—12 Point

2N 9503	40418	7/16	1 7/8	.16	.94
2N 9504	†10420	9/16	2 1/16	.19	.94
2N 9505	40422	11/16	2 1/16	.25	1.04
2N 9506	40424	3/4	2 1/16	.28	1.18

†Fits 1941 Chevrolet and Buick Spark Plugs.

Ford V8 Connecting Rod Sockets

2N9508

2N9510

Extra Thin—Not Guaranteed

This socket is designed for use in removing the nuts holding the connecting rod on Ford V8. The best Chrome Alloy steel is used in making this socket, but due to the fact the walls must be extra thin this socket is not guaranteed.

Stock No.	Mfr's. No.	Inch Square Size	Drive Size	Ht.	Fact. List EACH
2N 9508	4V118	7/16	1/2	1 1/4	$0.78

Six in a box.

Drag Link Sockets

Chrome Alloy Steel—Chromium Plated and Polished

The ideal socket to use on slotted nuts, tie rods and drag links.

Stock No.	Mfr's. No.	Inch Square Drive Size	Blade	Lgth.	Fact. List EACH
2N 9510	40809	1/2	11/16 x 120	1 1/2	$1.08

Six in a box.

Universal Joints

Stock No.	Mfr's. No.	Sq. Drive Lgth. In.	Size In., lb	Shipping Each	Fact. List EACH
2N 9558	45190	2	3/8	1/2	$2.96
2N 9559	40190	2 1/2	3/8	1/2	2.30

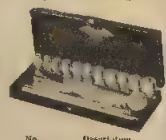
Six in a box.

S-K Chrome Wrench Sets

Thin Wall 6 Point, 8 Point and 12 Point Sockets—Chromium Plated and Polished

1/4-In. Square Drive

The added flexibility secured by the No. 40978 Reverse Ratchet and the Nos. 40901 and 40902 2-inch and 6-inch Extensions respectively, makes this set indispensable to the mechanic who is working on carburetor, radio ignition and aviation equipment. The complete set includes the following items listed below



No.	Description
40953	Flex Handle
40950	Cross Bar
40979	Reversible Ratchet
40901	2-inch Extension
40902	6-inch Extension
40906	3/16 inch 6 pt. Socket
40907	1/4-inch 6 pt. Socket
40908	5/16 inch 6 pt. Socket

No.	Description
40909	3/8-inch 6 pt. Socket
40910	7/16 inch 6 pt. Socket
40911	1/2 inch 12 pt. Socket
40912	9/16 inch 12 pt. Socket
40913	5/8 inch 12 pt. Socket
40914	11/16 inch 8 pt. Socket
40960	3/4 inch 8 pt. Socket
40961	13/16 inch 8 pt. Socket

Stock No.	Mfr's No.	lb Set	Fact. List SET
2N 9388	4098R	1½	▲$8.52

One set in a metal case, wrinkle finish.

1/2-Inch Square Drive

Work on the modern automobile demands a complete range of straight wall, deep and Universal Joint Sockets, plus extensions, handles, and a reversible ratchet in the ½-inch square drive. This set includes all of these tools

Contents:

No.	Description
45153	Flex Handle
45155	Cross Bar
45161	Speeder
45170	Reversible Ratchet
45160	2-3/4-inch Extension
45181	6-inch Extension
45182	11 inch Extension
45190	Universal Joint
45112	3/8 inch socket
45114	7/16-inch Socket
45116	1/2 inch Socket
45118	9/16-inch Socket
45120	5/8-inch Socket
45122	11 inch Socket
45124	3/4-inch Socket

No.	Description
40412	3/8-in. Extra Deep Socket
40414	7/16-in. Extra Deep Socket
40416	1/2 in. Extra Deep Socket
40418	9/16-in. Extra Deep Socket
40420	5/8-in. Extra Deep Socket
40422	11 in. Extra Deep Socket
40424	3/4 in. Extra Deep Socket
40612	3/8 in. Universal Joint Socket
40614	7/16 in. Universal Joint Socket
40616	1/2 in. Universal Joint Socket
40618	9/16-in. Universal Joint Socket
40620	5/8-in. Universal Joint Socket
40622	11 in. Universal Joint Socket
40624	3/4-in. Universal Joint Socket

Stock No.	Mfr's No.	lb Set	Fact. List SET
1N 8396	4531R	9	▲$31.23

One set in a carton.

7 Piece Friction Type Universal Joint Socket Set

3/8-In. Square Drive

On the modern automobile nuts are found in many inaccessible places, therefore Universal Joint Sockets are an absolute necessity. The concealed spring holds the socket in any working position in which it is placed

No.	Description
40812	3/8 inch Univ. Jt. Socket
40814	7/16-inch Univ. Jt. Socke
40816	1/2 inch Univ. Jt. Socket
40818	9/16 inch Univ. Jt. Socke
40820	5/8 inch Univ. Jt. Socket
40822	11 inch Univ. Jt. Socket
40824	3/4-inch Univ. Jt. Socket

Stock No.	Mfr's. No.	lb Set	Fact. List SET
2N 8837	4006R	1...	▲$12.47

One set in a steel case, wrinkle finish.

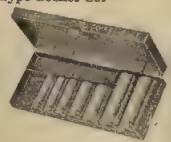
Universal Joint Sockets

3/8-In. Square Drive—Friction Spring Type—Double Hex

Stock No.	Part No.	Size	Inch—Shipping Length	lb Each	Fact. List EACH
2N 9551	40612	3/8	1 3/4	.12	$1.77
2N 9552	40614	7/16	1 3/4	.12	1.77
2N 9553	40616	1/2	1 3/4	.12	1.77
2N 9554	40818	9/16	1 3/4	.13	1.77
2N 9555	40620	5/8	1 3/4	.13	1.77
2N 9556	40622	11/16	1 3/4	.16	1.77
2N 9557	40824	3/4	1 3/4	.17	2.77

Six in a box

7 Piece Long Type Socket Set



3/8-In. Square Drive Straight Wall 6 and 12 Point — Sockets Extra Long—Chrome Plated and Polished

The straight thin wall sockets in this set are designed to fit bolts in running board channels, fender and body supports, 10 mm spark plugs, etc. The 40420 9/16-inch can be used for 1941 Chevrolet and Buick spark plugs. 3/8 to 1/2 inch sockets are 6 point sockets, balance are 12 point

Contents:

No.	Description
404 2	3/8-inch Deep Socket
40414	7/16 inch Deep Socket
40416	1/2 inch Deep Socket
40418	9/16 inch Deep Socket

No.	Description
40420	9/16-inch Deep Socket
40422	11-inch Deep Socket
40424	3/4-inch Deep Socket

Stock No.	Mfr's. No.	lb Set	Fact. List SET
2N 9392	4407	1½	▲$4.98

One in a steel case, wrinkle finish.

10 Piece Spark Plug Socket Set

1/2-In. Square Drive

This set contains 9 of the most popular size sockets, including the 13/16-inch and 15/16 inch for use on 14mm spark plugs. The 53820 9/16-inch can be used for 1941 Chevrolet and Buick Spark Plugs.

Contents:

No.	Description
40818	9/16-in Spark Plug Socket
40820	5/8-in Spark Plug Socket
40822	11/16-in. Spark Plug Socket
40824	3/4-in. Spark Plug Socket
R-40826	13/16-in. Spark Plug Socket
B-40826	15/16-in. Spark Plug Socket

No.	Description
40830	1 in Spark Plug Socket
40832	1 1/16 in Spark Plug Socket
40836	1 1/16-in Spark Plug Socket
48L	Ell Handle

Stock No	Mfr's No.	lb Set	Fact. List SET
2N 9400	134810	6	▲$6.24

One set in strong metal box with hinge cover.

Spark Plug Sockets

1/2-In. Square Drive—Double Hex

Stock No.	Part No.	Inch— Length	Shipping lb Each	Fact. List EACH
2N 9460	40818	1	3 1/4	.38	$0.98
2N 9461	40820	1 1/16	3 1/4	.38	.98
2N 9462	40822	1 1/8	3 1/4	.38	.98
2N 9463	40824	1 5/16	3 1/4	.40	.98
2N 9464	40826	1 3/16	3 1/2	.55	1.02
2N 9465	40828	1 5/16	3 1/2	.59	1.16
2N 9466	40830	1 1/4	3 1/2	.61	1.28
2N 9467	40832	1	3 1/2	.64	1.45
2N 9468	40836	1 1/8	3 1/2	.80	1.57

Six in a box.

▲ We do not break sets

S-K Chrome Wrench Sets

Heavy Duty Wrench Sets

3/4-In. Square Drive

A complete setup for Heavy Duty Truck, Tractor Bus, Oil Well and Cotton Gin work. This complete reasonably priced assortment of ¾-inch square drive tools will handle practically everything the mechanic will meet in work of this character. Packed in a heavy, well constructed chest with lift out tray. Piano type hinges across both sides of the top. Finished with nickeled hasp for padlock and nickeled heavy bolts and corner irons. Furnished with round leather handle. Wrinkle finish.

Contents:

No.	Description	No.	Description
47158	—18-in. Slide Tee Wrench	47144	—1 11/16 inch Socket
47161	8-inch Extension	47148	—2 1/16-inch Socket
47162	—16-inch Extension	47145	—1 1/8-inch Socket
47170	—Reversible Ratchet	47150	—1 3/16-inch Socket
47134	—1 1/16-inch Socket	47152	—1 1/4 inch Socket
47136	—1 1/4 inch Socket	47151	—1 5/16-inch Socket
47138	—1 3/8-inch Socket	47156	—1 3/8-inch Socket
47140	—1 7/16-inch Socket	47155	—1 7/16 inch Socket
47142	—1 1/2-inch Socket	47160	—1 1/2-inch Socket
		47164	—2-inch Socket

Stock No.	Mfr's. No.	lb Set	Fact. List SET
2N 9398	4707W	47	▲$51.64

One set in a carton.

12-Pt. S-K Box Wrench Sets

Consists of one each Stock Nos. 2N9365, 2N9366 and 2N9367.

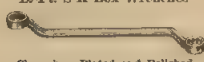
Stock No.	Mfr's. No.	lb Set	Fact. List SET
2N 9406	3350	1½	▲$2.86

Consists of one each Stock Nos. 2N9368, 2N9369, 2N9370, 2N9371, 2N9372 and 2N9373.

Stock No.	Mfr's No.	lb Set	Fact. List SET
2N 9405	3300	3¼	▲$1.24

One set in a box.

12-Pt. S-K Box Wrenches



Chromium Plated and Polished

Drop forged from chrome vanadium steel, carefully heat treated, cold broached with hydraulic broaching equipment insuring close, smooth, 12 point ends. 15 degree angle. Ends beautifully polished. Exceptionally strong.

Stock No.	Mfr's No.	Size In.	Lgth. In.	lb Each	Fact. List EACH
2N 9365	33512	⅜ x 7/16	4¾	⅛	$0.71
2N 9366	33516	½ x ⅝	5⅝	¼	.79
2N 9367	33520	⅝ x ¾	6	⅜	.90
2N 9368	33012	⅜ x ⅞	7⅛	⅜	.71
2N 9369	33016	½ x ⅝	8⅝	½	.78
2N 9370	33020	⅝ x ¾	9⅝	⅝	.90
2N 9371	33024	¾ x ⅞	11⅛	¾	.99
2N 9372	33026	1 x 1 1/16	12½	⅞	1.31
2N 9373	33030	1 1/16 x 1	14¼	⅞	1.58

Six in a box.

Socketchest

90 Pieces—In No. 6810 Heavy Duty Mechanics Chest

We have long felt that there would be a market for a set of tools that would offer the mechanic a complete setup that would take care of the everyday needs. This set contains a complete selection of all necessary sockets, handles, extension, ratchet, universal joints and universal joint sockets. The ½, ¾ and 1 inch square drives. These tools are packed in our large No. 6810 Heavy Duty Tool Chest. The tray and Tool Chest for the garage mechanic. The tray compartment contains an 18-inch Tote Tray which makes it possible for the mechanic to carry emergency Tools to the job. The top compartment is arranged with partitions to accommodate a complete Set of Socket Wrenches. The top drawer is divided into compartments for Box End Wrenches and ratchet handles, etc. Tools. The bottom drawer will accommodate the ½ inch Drive Heavy Duty Sockets and other long and bulky Tools. The drawers have the S-K Kassnake feature. It is finished in attractive green wrinkle with nickel plated hasp and side catches. A sturdy handle is affixed to each end for easy carrying. The size is 22x10x10 inches.

Contents:

No.	Description	No.	Description
½-in. Sq. Drive Sockets, Handles		**½-in Sq. Drive Sockets, Handles**	
40953	—Flex Handle	41653	Flex Handle
40950	—Cross Bar	41650	—Cross Bar
40979	—Reversible Ratchet	40151	—Speeder
40961	—2-inch Extension	42470	Reversible Ratchet
40962	—6-inch Extension	40161	8-inch Extension
40906	—½-inch 6 pt. Socket	40162	—16-inch Extension
40907	—⅝-inch 6 pt. Socket	40150	—Universal Joint
40908	—¾-inch 6 pt. Socket	40152	—Slide Tee Wrench
40909	—⅞ inch 6 pt. Socket	40114	—⅜-inch Hex Socket
40910	—1 inch 6 pt. Socket	40116	—½ inch Hex Socket
40911	—1⅛ inch 12 pt. Socket	40118	—⅝-inch Hex Socket
40912	—¾ inch 12 pt. Socket	40119	—¾ inch Hex Socket
40914	—1⅜ inch 12 pt. Socket	40120	—⅞ inch Hex Socket
40958	—1½ inch 8 pt. Socket	40121	—1 inch Hex Socket
40909	—1⅝-inch 8 pt. Socket	40123	—1⅛ inch Hex Socket
40907	—1¾ inch 8 pt. Socket	40124	—1¼ inch Hex Socket
Above Tools in Metal Box		40126	—1⅜ inch Hex Socket
		40128	—1½ inch Hex Socket
⅝-in Sq. Drive Sockets, Handles		40131	—1⅝ inch Hex Socket
45153	—Flex Handle	40132	—1¾ inch Hex Socket
45150	—Cross Bar	40134	—1⅞-inch Hex Socket
45151	Speeder	40136	—2-inch Hex Socket
45170	Reversible Ratchet	41116	—⅜ inch Ford VS Tool Socket
45160	6 inch Extension	40589	—Drag Link Socket
45162	11 inch Extension	40815	—⅝-in Spark Plug Socket
45166	Universal Joint	40820	—¾ in Spark Plug Socket
45152	Slide Tee Wrench	40823	—⅞ in Spark Plug Socket
45116	—⅜-inch Socket	40824	—1-in Spark Plug Socket
45118	—½-inch Socket	B 40828	—1⅛-in Spark Plug Socket
45120	—⅝-inch Socket	B 40825	—1¼-in Spark Plug Socket
45122	—¾-inch Socket	40830	—1⅜-in. Spark Plug Socket
45124	—⅞-inch Socket	40832	—1-in. Spark Plug Socket
40412	—¾-in. Long Type Socket	40836	—1⅛-in. Spark Plug Socket
40414	—⅞-in. Long Type Socket	45L	—Kit Handle
40416	—1-in. Long Type Socket	**Above Spark Plug Sockets in Metal Box**	
40418	—1⅛-in. Long Type Socket		
40420	—1¼-in. Long Type Socket	**Box End Wrenches**	
40422	—1⅜-in. Long Type Socket	33512	—Box End Wrench
40424	—1½-in Long Type Socket	33516	—Box End Wrench
Above Long Type Sockets in Metal Box		33520	—Box End Wrench
		33012	—Box End Wrench
40612	—¾-in Univ. Joint Socket	33016	—Box End Wrench
40614	—⅞-in Univ. Joint Socket	33020	—Box End Wrench
40616	—1-in. Univ. Joint Socket	3302	—Box End Wrench
40618	—1⅛-in Univ. Joint Socket	3305	—Box End Wrench
40620	—1¼-in Univ. Joint Socket	33606	Box End Wrench
40622	—1⅜ in Univ. Type Socket	**Above Box End Wrenches 15° Angle**	
40624	—1½ in Univ. Joint Socket		
Above Univ. Joint Sockets in Metal Box			

Stock No.	Mfr's. No.	lb Set	Fact. List SET
1N 9386	40103	71	▲$56.35

One in a case.
▲We do not break sets.

S-K Chrome Wrench Sets

Mastercraft

The only truly portable chest of its kind. The heavy steel, leather-covered handle is on top of the chest for easy handling. Chest dimensions are 20x8x9¾ inches. Green wrinkle finish

¼" Square Drive

One midget flex handle ½ inch square drive Mfr's. No. 40853, one cross bar Mfr's. No. 40850, six 12-point sockets ¼ to ⅜ inch Mfr's Nos. 40906, 40909, 40910, 40911 40912 40914, and three 8-point sockets ⅜ to ⅝ inch Mfr's Nos. 40908, 40906, 40901

⅜" Square Drive

One flex handle ⅜-inch square drive Mfr's. No. 45153, one cross bar Mfr's No. 45150 one long speeder Mfr's No. 45151, one reverse ratchet Mfr's. No 45170 one 6-inch extension Mfr's No 45181, one 11-inch extension Mfr's No. 45182 one universal joint Mfr's No. 45180, three 6-point sockets, four 12-point straight wall sockets ⅜ to ¾ inch, Mfr's. Nos. 45112, 45114, 45116, 45118, 45120, 45122, 45124

½" Square Drive

One 17-inch flex handle Mfr's. No. 41653, one cross bar Mfr's. No 41650, one long speeder Mfr's. No. 40181, one reverse ratchet Mfr's. No. 42470, one 5-inch extension Mfr's No. 40161, one 10-inch extension Mfr's No. 40162, one Mfr's. No 40190 universal joint, one slide Tee wrench Mfr's. No 40152, and fourteen 12-point sockets ⅜ to 1¼ inches Mfr's. Nos. 40114, 40116, 40118, 40119, 40120, 40122, 40124, 40125, 40126, 40128, 40130, 40132, 40134, 40136

¼" Square Drive

One 18-inch slide Tee wrench Mfr's. No. 47153, one 8-inch extension Mfr's. No. 47161, one 16-inch extension Mfr's No. 47162 and seven S-K chrome heavy duty 12-point sockets 1⅛ to 1¾ inches Mfr's Nos. 47134, 47136, 47140, 47144, 47146, 47148, 47122,

Box Wrenches

One each Mfr's. Nos. 33512, 33516, 33520, 33012, 33018 33020, 33024, 33028, 33030 Sizes ⅜ to 1 inch. Fact List

Stock No.	Mfr's. No.	lb Set	SET
1N 9385	4006W	57	▲$69 18

One set in a metal case.

56 Piece Socket Wrench Set

Chromium Plated and Polished

This wide selection of tools is packed in one of the finest portable chests offered to the trade. This chest is made of heavy gauge steel, equipped with piano type hinges and has lift-out tote tray The heavy corner irons, hasp for padlock, and side catches are nickel plated Chest dimensions are 20x8x9¾ inches Set contains one each of the following.

¼" Drive Sockets and Handles

One each Mfr's Nos 40903 Flex Handle 40950 Cross Bar 40908 ¼-in 8 Pt Skt 40909 ⅜-in. 8 Pt. Skt, 40910 ⅞-in 8 Pt Skt 40911 ½-in. 12 Pt Skt 40912 ⅝ in. 12 Pt. Skt, 40914 ⅞-in 12 Pt Skt 40908 ¼-in 8 Pt Skt 40909 ⅜-in. 8 Pt. Skt, 40901 ⅝-in. 8 Pt. Skt

⅜" Square Drive Sockets and Handles

One each Mfr's Nos 45153 Flex Handle 45150 Cross Bar, 45151 Speeder, 45170 Reversible Ratchet, 45161 6-in Extension, 45162 11 in Extension, 45180 Universal Joint 45112 ⅜ in Skt 45114 ⅞-in Skt 45116 ½-in Skt, 45118 ⅝ in Skt 45120 ⅝-in Skt. 45122 ¾-in Skt 45124 ⅞ in Skt.

½" Square Drive Sockets and Handles

One each Mfr's No 41653 Flex Handle, 41650 Cross Bar 40181 Speeder 42470 Reversible Ratchet, 40161 5-in extension 40 62 10 in Extension, 40190 Universal Joint, 40152 Slide T Wrench 40114 ⅜ in Skt 40116 ½-in. Skt, 40118 ⅞-in Skt 40119 ⅝-in. Skt, 40120 ¾-in Skt 40122 ⅞-in. Skt, 40124 1-in. Skt, 40126 1⅛-in. Skt, 40125 1⅛-in Skt, 40130 1¼-in. Skt, 40132 1⅜-in Skt, 40134 1½-in Skt, 40136 1¾-in Skt

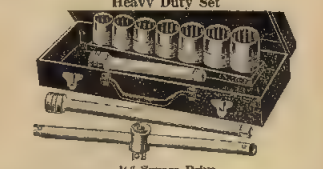
15 Degree Box End Wrenches

One each Mfr's Nos 33512 ⅜x½-in Short, 33516 ½x⅝ in Short 33520 ⅝x¾-in Short, 33012 ¾x⅞ in Long, 33018 ⅞x1-in. Long 33020 1x1¼-in. Long 33024 1¼x1½ in Long 33028 1½x1¾-in. Long, 33030 1¾x2-in. Long

Stock No.	Mfr's. No.	lb Set	SET
1N 9407	4002W	37	$52 83

One set in a metal box

Heavy Duty Set



½" Square Drive

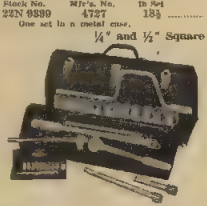
Designed for heavy duty truck and bus work. The reasonably priced assortment of tools will handle most of the everyday work of this character

Contents—1 18-inch slide Tee wrench Mfr's. No. 47152, 1 8-inch extension Mfr's No 47161 1 16-inch extension Mfr's No. 47162 1 Mfr's No 47170 reversible ratchet and 7 S-K chrome heavy duty 12-point sockets 1⅛ to 1¾ inches Mfr's Nos 47124, 47136, 47140, 47144, 47146,47148 and 47152), in steel case and green wrinkle finish

Stock No.	Mfr's. No.	lb Set	Fact List SET
22N 9339	4727	18½	▲$79.88

One set in a metal case.

¼" and ½" Square Drive



This thirty-two piece general purpose set has received instant acceptance by the mechanic wherever it is shown. In addition to the wide range of ¼ inch square drive 12 point sockets and handles, it also has the 4097 midget set, packed in individual metal case, which is removable. The complete set is packed in the 4502-C chest. The lift-out tray in this chest will hold the complete set, leaving ample room in the bottom of the chest for practically all of the other tools a mechanic may need for any job. Sturdily constructed throughout, Piano type hinges across both sides of the top. Metal carrying handle is equipped with nickel plated hasp for padlock corner irons, and side catches Wrinkle finish Overall dimensions of chest, 19x7⅝x9¾ inches Set contains one each of the following

¼" Square Drive Sockets and Handles

No.	Description	No.	Description
40953	Flex Handle	40912	⅝ in 12 pt. Skt.
40950	Cross Bar	40914	⅞ in 12 pt. Skt.
40908	¼ in. 8 pt Skt.	40908	¼ in. 8 pt. Skt.
40909	⅜ in. 8 pt. Skt.	40909	⅜ in 8 pt. Skt.
40910	⅞ in. 8 pt. Skt.	40901	⅝ in 8 pt Skt.
40911	½ in. 12 pt Skt		

½" Square Drive Sockets and Handles

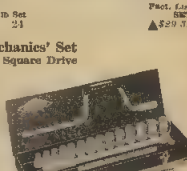
No.	Description	No.	Description
41653	Flex Handle	40120	¾ in. Skt
41650	Cross Bar	40122	⅞ in Skt.
40181	Speeder	40124	1 in Skt.
42470	Reversible Ratchet	40125	1⅛ in Skt
40161	5 in Extension	40126	1⅛ in Skt.
40162	10 in. Extension	40128	1¼ in. Skt.
40152	Slide T Wrench	40130	1⅜ in. Skt.
40114	⅜ in Skt	40132	1½ in Skt.
40116	½ in. Skt	40134	1¾ in Skt
40118	⅝ in. Skt.	40136	1¾ in Skt.
40119	⅝ in Skt		

Stock No.	Mfr's. No.	lb Set	Fact. List SET
1N 9393	4502W	24	▲$29.74

One set in a metal case

Mechanics' Set

½" Square Drive



This set contains the sturdiest tools in the S-K line, arranged in a new type box which makes every unit accessible. Contents—1 17-in Flex handle Mfr's. No 41653 1 chrome ratchet Mfr's No 41650, 1 long speeder Mfr's, No 40181, 1 Mfr's No. 42470 reverse ratchet 1 5-in. extension Mfr's. No. 40161, 1 10-in extension Mfr's No 40162. 1 slide Tee Wrench Mfr's No 40152 and 14 12 point sockets ⅜ to 1¾ in (Mfr's. Nos. 40114, 40116 40118, 40119, 40120 40122, 40124 40126, 40128 40125, 40130 40132, 40134 and 40136) In attractive metal case with carrying handle, in green wrinkle finish

Stock No.	Mfr's. No.	lb Set	Fact List SET
22N 9391	4241W	16	▲$21 77

One set in a metal case.
▲ We do not break sets.

S-K Chrome Wrench Sets

Mastercraft—Sherman-Klove

Thin Taper Wall 12-Point Sockets—Extra Long—Chromium Plated and Polished

Mechanics' Set

½" Square Drive

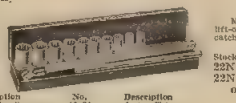
With this practical set it is possible to do most of the touring down and reassembling on any automobile or truck job. The improved Mfr's. No 43635 17 in handle is long enough to give the leverage required on any job.

Contents—1 17 inch Flex handle Mfr's. No 43635 1 cross bar Mfr's No. 41630 14 sockets ½ to 1⅛ inch (Mfr's. Nos 40114, 40118, 40119, 40120, 40122, 40126, 40128, 40132, 40134 and 40136) 1 Mfr's No. 43470 reverse ratchet In hinged cover steel box, green wrinkle finish

Stock No.	Mfr's No.	lb Set	Pkgs. List SET
2N 9389	4163W	9½	▲$76.05

One set in a metal case.

½" Square Drive



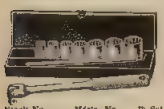
For the mechanic who wants a very handy set of ½ in. square drive 12 pt. socket wrenches at low cost. This twelve piece set is packed in metal carrying case, wrinkle finish. Contains one each of the following:

No.	Description	No.	Description
40253	Flex Handle	40120	5/16-in Skt.
40250	Cross Bar	40122	11/32-in Skt.
40.14	¼-in Skt	40 24	⅜ in Skt
40.16	5/16-in. Skt.	40126	13/32 in Skt
40.18	7/16-in. Skt.	40.28	7/16-in Skt
40119	9/32-in. Skt.	40130	15/32 in Skt

Stock No.	Mfr's. No.	lb Set	Pkgs. List SET
2N 9890	4237	5½	▲$8 67

One set in a box.

Car Owner's Set



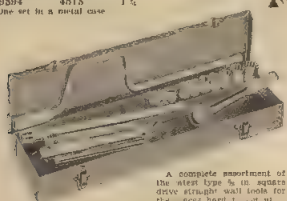
⅜-Inch Square Drive

This smaller type automobile requires smaller tools with greater strength for the inaccessible places. This straight wall type ⅜" square drive set will work wonders

Contents—1 Flex handle ⅜" square drive Mfr's. No. 45153 1 cross bar Mfr's. No. 45150, and 3 6-point and 4 12-point straight wall sockets ⅜ in to ¾ in (Mfr's Nos 45112 45114 45116, 45118, 45120, 45122 and 45124) In steel case with black wrinkle finish

Stock No.	Mfr's. No.	lb Set	Pkgs. List SET
2N 9894	4518	1 ½	▲$5 76

One set in a metal case



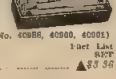
A complete assortment of the latest type ⅜ in. square drive straight wall tools for those hard to get at

Contents—1 Flex handle ⅜" square drive Mfr's No 45151 1 cross bar Mfr's. No 45150, 1 long speeder Mfr's. No. 45181, 1 reverse ratchet Mfr's. No 45126, one 6" extension Mfr's No 45182 one 11" extension Mfr's No 45183, one universal joint Mfr's No. 45190 three 6-point and 4 12-point straight wall sockets ⅜ in to ¾ in (Mfr's No. 45112, 45114, 45116, 45118, 45120 45122, 45124) In attractive steel case with black wrinkle finish

Stock No.	Mfr's. No.	lb Set	Pkgs. List SET
2N 9895	4517W	6¾	▲$28 91

One set in a metal case.

Ignition Set

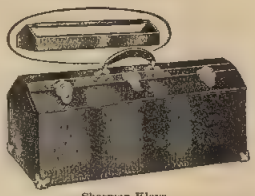


Indispensable for fast work on ignition carburetor, radio and other light pieces where you can't get in with large tools Contents—1 Midget Flex hand a ¼" square drive (Mfr's No 40953) 1 cross bar Mfr's No 40950 six 12-point socke s ¼" to ⅜ in (Mfr's Nos 40908, 40909 40910 40911, 40912 40914) and three 6-point sockets ¼-in. to ⅜-in. (Mfr's. No. 40908, 40909, 40911) In steel case finished in green wrinkle

Stock No.	Mfr's. No.	lb Set	Pkgs. List SET
2N 9387	4097	1½	▲$3 36

One set in a metal case.

Tool Chest

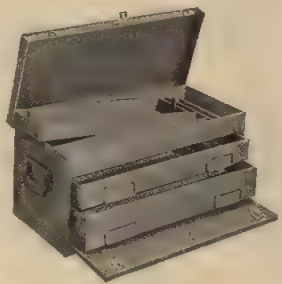


Sherman Klove

Made of heavy gauge steel equipped with plane type hinges. Has lift-out tote tray, heavy corner irons, hasp for padlocks and side catches are nickel plated.

Stock No.	Mfr's No.	Inches Lgth.	Wd.	Hght.	lb Each	Pkgs. List EACH
22N 9377	1502	19	7	8¾	11	$7 36
22N 9378	1503	20	6	6	10	6 04

One in a case.

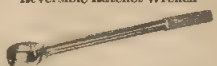


Heavy Duty

The top compartment contains an 18 inch tote tray and also is arranged with partitions to accommodate a complete set of socket wrenches. Top drawer will accommodate end wrenches and miscellaneous. Bottom drawer will accommodate ¾ in. sockets and other long and bulky tools. Sturdy handle on each end for easy carrying.

Stock No.	Mfr's No.	Inches Lgth.	Wd.	High	lb Each	Pkgs. List EACH
1N 9380	6610	22	10	10	40	$24 76

Reversible Ratchet Wrench



Chrome Vanadium Steel—Thumb Action Reverse

Chromium Plated and Polished

These ratchets have all the advantages of free wheeling without the well known troubles. We believe this is what the mechanic has wished years for Has two to three times as many teeth as are found in ordinary ratchet wrenches. Will ratchet through angle of 5 degrees in positive manner Draw torques. All parts carefully heat treated.

Stock No.	Mfr's. No.	Lgth. In.	Dia. In.	Drive Size In.	lb Each	Pkgs. List EACH
2N 9561	40870	4½	1⅛	½	¾	$ 3.27
2N 9562	43170	7½	1⅞	⅝	⅞	4.89
2N 9563	42470	10½	1⅝	½	1⅝	5.07
2N 9564	47170	18	2¾	¾	5	11 49

Six in a box.

▲We do not break sets

Wrenches

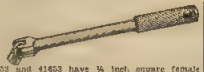
Sherman—Klove

S-K Chrome Handles

Chromium Plated and Polished

Flexible Head Handles

Without question Flexible Head Handles are the most useful tool used in connection with socket wrenches. Mfr's Nos. 41333 and 41653 have ⅜ inch square female openings in handle end which permits their use in many additional ways.



Stock No.	Mfr's No.	Lgth. In.	Dia. In.	Square Drive Size In.	lb Each	Fact. List EACH
2N 9520	40953	5¼	5/8	¼	¼	$1 05
2N 9521	45153	7½	5/8	⅜	½	2 03
2N 9523	40953	14½	5/8	⅜	1	2 37
†2N 9523	41653	17	5/8	½	1⅝	3 06
2N 9524	47155	19	1	¾	4	6 95

†With female ⅜ inch square in handle end.

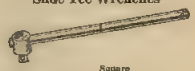
Six in a box.

Speeder Handles

Stock No.	Mfr's. No.	Lgth In.	Dia. In.	Square Drive Size In.	lb Each	Fact. List EACH
2N 9566	45181	18	5/8	1		$2 53
2N 9567	40181	18¼	1/2	7/8	1½	1 40

Six in a box.

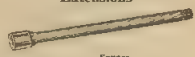
Slide Tee Wrenches



Stock No.	Mfr's. No.	Lgth. In.	Dia. In.	Square Drive Size In.	lb Each	Fact. List EACH
2N 9570	40152	10	1/2	1/2	7/8	$1 43
2N 9571	47153	18	7/8	3/4		2 76

Six in a box.

Extensions



Stock No.	Mfr's. No.	Lgth. In.	Dia. In.	Square Drive Size In.	lb Each	Fact. List EACH
2N 9540	40961	2	3/4	1/4	1/8	$0 51
2N 9541	40962	6	3/4	1/4	3/8	66
2N 9542	45160	2	7/8	3/8	1/2	75
2N 9543	45161	6	7/8	3/8	7/8	92
2N 9544	45162	11	7/8	3/8	1/2	1 05
2N 9546	40161	5	5/8	1/2	3/8	98
2N 9547	40162	10	5/8	1/2	7/8	1 19
2N 9548	47161	8	1/8	3/4	1 3/8	1 89
2N 9549	47162	16	1/8	3/4	3¼	3 21

Six in a box

Spintites—Hexagon

Walden

The socket wrench for little nuts. Works like a screw driver. Little nuts! Millions of them to be tightened everywhere. In the home, in the radio shop, the electrical shop, in the industrial plant, on the automobile. Every work bench, every tool assortment. Spintites used by the big radio and car manufacturers for years. There's a feel to Spintite nut drivers! no fear you can round. But here is a screw driver with a 'Hexagon' hexagon socket on the end. Holding shank of the socket will reach down over the nut and grip the nut.

T-73 Bench Set

A set of seven popular sizes ⅛ inch to ⅜ inch hexagon, mounted in a convenient holder for bench or tool rack. An ideal unit for electrical assembly, repair or testing.

Stock No.	Mfr's. No.	lb Set	Fact. List SET
2N 9060	T-73	3⅛	▲$6 10

Open Stock For Above

Stock No.	Mfr's. No.	Hex. Size In.	Overall Lgth. In.	Machine Screw Nut	lb Each	Fact. List EACH
2N 9061	3406	1/8	6	2/56	1/16	$0 65
2N 9062	3408	5/32	6	4/40	1/16	65
2N 9063	3410	3/16	6	6 32	1/16	65
2N 9064	3411	1/4	6	8-32	1/16	65
2N 9065	3412	5/16	6	10 32	1/16	65
2N 9066	3414	3/8	7½	12/32	3/16	99
2N 9067	3416	7/16	7½	14/32	3/16	99

Twelve in a box.

▲We do not break sets.

Defiance Tool Stock

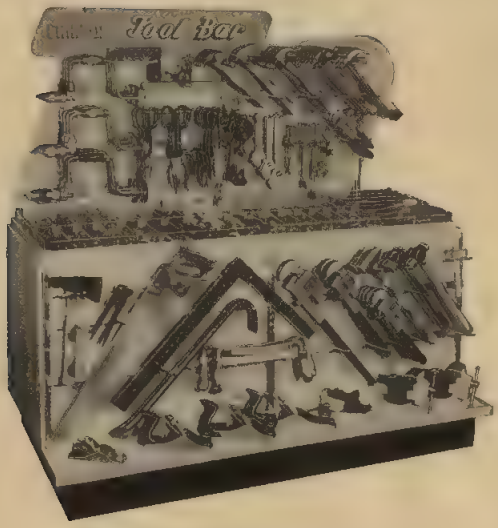
Tool stock for No. D 200T Defiance Tool Set as set up in D 200D Revolving Tool Table. These tools are those which are most popular and complete tool set up for many manufacturing purposes. Any items can be displayed in the tool station

Quan	Stock No	Mfr's No	Item	Retail Cost EACH
2	2N 50	.201	Axe	$ 3 20
2	2N 8	1202	Axe	4
2	2N 8038	.225	Bevel	70
2	2N 786	1250	Bit Brace	4 35
2	2N 789	.245	Bit Brace	5
2	2N 846	263	Bit set	7 20
6	2N 849	.226	Bits, Screw Driver	70
6	2N 852	.256	Bits, Screw Driver	70
2	2N 4079	1251	Chisel	
1	2N 1972	1251	Chisel	20
1	2N 1961	1501	Chisel	30
1	2N 4075	12	Chisel	1 50
2	2N 1947	1	Chisel	60
2	2N 681	1202	Chisel	1 50
4	2N 1662	.205	Chisel	1 35
4	2N 684	1253	Chisel	40
4	2N 1658	.250	Chisel	1 50
2	2N 1686	1202	Chisel	50
2	2N 1687	1202	Chisel	1 50
4	2N 1942	74	Cold Chisel	45
4	2N 1	74	Cold Chisel	60
4	2N 1 97	74	Cold Chisel	90
1	2N 2052	1213	Drill	1 75
1	2N 2132	1217	Drill	1 95
2	2N 2014	220	Drill	40
1	2N 2020	600	Drill Pt. Set	30
2	2N 4071	101	Hammer, Nail	2 40
2	2N 4002	111	Hammer, Nail	4 50
2	2N 4003	12	Hammer, Nail	4 80
6	2N 4062	2	Hammer, Nail	1 45
6	2N 4064	214	Hammer, Nail	1 30
2	2N 4004	619	Hammer, Nail Puller	1 55
2	2N 4480	122	Hatchet	2 95
2	4P 6492	.274	Ice Pick	25
3	2N 4547	1299	Knives	80
5	2N 4544	1991	Knives, Scissors	90
1	2N 4696	1297	Level	1 10
6	2N 4733	1287	Level, Line	70
3	2N 4700	1293	Level, Torpedo	60
2	2N 469	1294	Level	80
2	2N 4692	294	Level	
1	2N 4689	1295	Level	2 25
12	2N 5120	12	Nail Set	25
12	2N 5121	1211	Nail Set	25
1	2N 8496	1203	Plane	3 95
2	2N 8498	1204	Plane	5 10
1	2N 6458	305	Plane	4 85
2	2N 6491	1201	Plane, Block	4 75
1	2N 6462	.248	Plane, Block	3 60
1	2N 6496	.240	Plane, Block	4 00
1	2N 6464	.245	Plane	3 45
6	2N 7018	.215	Punch, Center	75
2	2N 7024	SB	Punch, Drive	42
6	2N 7137	98	Rule, Zig Zag	75
6	2N 7321	1260	Rule, Aluminum	
6	2N 7305	1202	Rule, Pull Push	
6	2N 7305	1206W	Rule, Pull Push	80
8	2N 7308	1208W	Rule, Pull Push	90
3	2N 7307	1210W	Rule, Pull Push	1 00
2	2N 7989	132	Saw Set	1 75
12	2N 8211	1209	Screw Driver	
12	2N 8211	1271	Screw Driver	20
12	2N 8213	271	Screw Driver	25
8	2N 8214	1270	Screw Driver	35
6	2N 8243	7008	Screw Driver	45
6	2N 8246	7006	Screw Driver	60
6	2N 8254	3006	Screw Driver	75
6	2N 8255	3008	Screw Driver	90
12	2N 8257	30.6	Screw Driver	15
6	2N 8258	30.2	Screw Driver	17
6	2N 8216	1277	Screw Driver	20
6	2N 8219	277	Screw Driver	22
8	2N 8290	2731	Screw Driver	11
8	2N 8291	2732	Screw Driver	1
8	2N 8294	274	Screw Driver	1
2	2N 8868	1818	Sp. Ratchet Handyman	85
2	2N 8168	2811	Sp. Ratchet "Yankee Handyman"	85
1	2N 8527	800	Square	2 20
3	2N 8528	R000B	Square	2 75
3	2N 8553	.22	Square	1 25
3	2N 8560	.222	Square	1 85
1	2W 9339	1207	Vise	2 50
2	2W 9340	.209	Vise	3 50
1	2W 9344	12.6	Vise	4 45

Tools Retail Value $400.82

Stock No	Mfr's No	Tb Each	Each Less EACH
1N 4946	D1200T	165	$301 65

Worth Tools



Worth Tool Bar—Without Tools

The Tool Bar is sold only to dealers who purchase a tool deal. It is sturdily constructed of plywood, with six metal holders. Glass compartments and furnished with price tags. The attractive colors of gray enamel and protective black, make this display a real "eye catcher". Instructions are included for quick and easy assembly. Markers are provided for tool locations, showing name and number of individual tools.

Stock No.	Mfr's. No.	Dimensions Inch Length	Wd.	Ht.	List EACH
XN	PTB50	60½	30½	50½	$167.45

Shipped direct from factory prepaid, only to dealers who purchase tool deal.

Streamliner Tool Chest

Worth

44 useful items including the most needed tools for home repairs and hobbyists. Comes in corrugated fiberboard tote tray. Contains one each of the following:

Size	Item	Size	Item
6 in.	Angle Wrench	6 in.	Chain Nose Side Cutting Pliers
8 in.	Bit Brace		
½ in.	Wood Chisel	16 in.	Hand Saw
7 oz.	Nail Hammer	4 in.	Screw Driver
Small	Level, pocket size	7 in.	Comb. Pattern Sp p
6 in.	Block Plane	2½ in.	Try Square
6 in.	Slip Joint Pliers	Asst.	Sandpaper
		Asst.	Nails

Stock No.	Mfr's. No.	Size Case In.	lb. Each	Fact. L'st EACH
1N 5904	15	19x9½x8⅝	9	$16.75

Worth Tools

Contents of Worth No. 950 Tool Deal

For Tool Bar

The Worth Tool Deal consists of a small quantity of all the practical tools required by the householder, mechanic, or farm use. These are guaranteed tools, priced to meet the competition of chain stores and others, while allowing dealer his full margin of profit. This tool deal displayed properly in a Worth Tool Bar will greatly increase the dealers sale of tools, and at the same time display them in an attractive fashion

This tool deal consists of the following

Stock No.	Content Only	Mfr's. No.	Size	Item	Fact. List EACH
2N 5933		A1	10"	Bit Brace	$2 75
2N 5935	2	A5	10"	Bit Brace	3 14
2N 5936	1	A6	10"	Bit Brace	4 25
2N 5937	X	A7	10"	Bit Brace	6 80
2N 5938	1	A8	12"	Bit Brace	7 15
2N 5925	1	A3	10"	Bit Brace	3 09
2N 6067	2	K1	8"	Carpenter Pincer	1 75
2N 5970	1	H44	1/4"	Chisel, Socket Butt	1 45
2N 5971	2	H45	3/8"	Chisel, Socket Butt	1 55
2N 5972	2	H4	1/2"	Chisel, Socket Butt	1 69
2N 5974	2	H6	3/4"	Chisel, Socket Butt	1 79
2N 5975	2	H6'	1"	Chisel, Socket Butt	1 89
2N 5976	1	H7	1 1/4"	Chisel, Socket Butt	2 04
2N 5961	2	H1	1/2"	Chisel, Socket Firmer	1 89
2N 5963	2	H2	3/4"	Chisel, Socket Firmer	1 99
2N 5965	2	H3	1"	Chisel, Socket Firmer	2 07
2N 5955	4	J1	3/8"	Cold Chisel	.65
2N 5956	4	J2	5/8"	Cold Chisel	69
2N 5957	2	J3	3/4"	Cold Chisel	.79
2N 6055	2	C1	8"	Draw Knife	2 60
2N 6056	1	C2	10"	Draw Knife	3 05
2N 5914	1	B2	1/2" to 1 1/2"	Expansive Bit	2 36
2N 5915	2	B1	5/8" to 3"	Expansive Bit	2 86
2N 5992		X2		Hand Drill	2 60
2N 6035	2	M6	40-oz	Engineers Hammer	2 85
2N 6024	4	M14	7 oz	Ladies Hammer	1 35
2N 6013	2	M7	16 oz.	Machinist Hammer	1 79
2N 6014	1	M37	20 oz.	Machinist Hammer	1 93
2N 6015	1	M8	24 oz.	Machinist Hammer	2 09
2N 6016	1	M9	28 oz.	Machinist Hammer	2 19
2N 6020	4	M2	16 oz	Nail Hammer	1 93
2N 6022		M1	16 oz	Nail Hammer	1 25
2N 6030	2	M3	16 oz	Nail Hammer	2 40
2N 6031	1	4M	16 oz	Nail Hammer	3 14
2N 6026	2	M3	16 oz.	Ripping Hammer	1 89
2N 6049	2	W1		Hatchet, Half	2.69
2N 6050	1	G6		Marking Guage	65
2N 6075	1	V1	7"	Plane, Block	1 89
2N 6076	1	V2	8"	Plane Smooth	4 50
2N 6077	1	V3	9"	Plane, Smooth	4 70
2N 6079	1	V4	14"	Plane, Jack	5 55
2N 6095	2	E9	6"	Pliers, Chain Nose	2 30
2N 6098	2	E7	5"	Pliers, Diagonal	2 30
2N 6090	2	E77	6"	Pliers, Diagonal	2 60
2N 6090	1	E16	6"	Pliers, Side Cutting	2 30
2N 6092	2	E20	8"	Pliers, Side Cutting	2.59
2N 6106	1	E88	7"	Pliers, Side Cutting	2 95
2N 6107	1	E8	8	Pliers, Side Cutting	3.89
2N 6110	6	E13	6"	Pliers, Slip Joint	.65
2N 6111	4	E17	8"	Pliers, Slip Joint	.95
2N 6112	2	E16	10"	Pliers, Slip Joint	1.25
2N 6115	4	E1	6"	Pliers, Slip Joint	1.65
2N 6116	3	E2	8"	Pliers, Slip Joint	1.85
2N 6117	1	E3	10"	Pliers, Slip Joint	1.89
2N 6120	3	E4	6 1/2"	Pliers, Slip Joint	$1 95
2N 6126	2	E6b	7"	Pliers, Slip Joint	2 30
2N 6124	2	E6	5 1/2"	Pliers, Slip Joint	1 99
2N 6125	1	E5	6 1/2	Pliers, Slip Joint	1 25
2N 6131	3	DD11		Punch, Center	.65
2N 6132	3	DD44		Punch, Drift	.65
2N 6133	3	DD88		Punch, Solid	65
2N 6150	2	CC11		Saw, Hand	4.19
2N 5910	2	HH1	3 1/2"	Scratch Awl	85
2N 6155	3	L1	4"	Screw Driver	65
2N 6156	3	L2	6"	Screw Driver	.85
2N 6157	2	L3	8"	Screw Driver	1 05
2N 6160	3	L14	3"	Screw Driver	54
2N 6161	3	L15	4"	Screw Driver	44
2N 6162	3	L16	6"	Screw Driver	54
2N 6164	2	B5	1/4"	Screw Driver Bit	44
2N 6165	2	B6	3/8"	Screw Driver Bit	54
2N 6182	2	D5		Snip	2.09
2N 6183	4	D2		Snip	2.39
2N 6186	1	D3		Snip	4.50
2N 6188	1	D4		Snip	3 89
2N 6193	1	D6		Snip	3 05
2N 6196	2	D1		Snip	1 59
2N 6197	1	D7		Snip	2 59
2N 6202	1	S4		Square, Combination	1 69
2N 6203	2	S2		Square, Steel	3 65
2N 6205	3	S1		Square, Steel	1 55
2N 6208	2	S3		Square, Try	1 19
2N 6212	1	AA11		Vise, Clamp Base	3 79
2N 6213	2	AA12		Vise, Swivel Base	5 69
2N 5985	1	P10	6"	Wing Divider	1.69
2N 5986	2	P1	8"	Wing Divider	1 79
2N 5912	2	U2		Wrecking Bar	1 19
2N 6216	3	F1	6"	Wrench, Adj Angle	1 89
2N 6217	3	F2	8"	Wrench, Adj. Angle	2 09
2N 6218	2	F3	10"	Wrench, Adj. Angle	2 72
2N 6219	1	F4	12"	Wrench Adj. Angle	3 98
2N 6220	2	R10	8"	Wrench, Pipe	1 65
2N 6221	2	R1	10"	Wrench, Pipe	2 09
2N 6222	2	R2	14"	Wrench, Pipe	2 79
2N 6223	2	R3	18"	Wrench, Pipe	3 99
2N 6224	1	R4	24"	Wrench, Pipe	6 89
2N 6236	2	5F63		Wrench Set (5 sizes)	1.98

203 Pieces 95 Items Total Fact. List $394.19

Stock No.	Mfr's No.	lb Each	Fact. List EACH
1N 5900	950	260	$394 19

Defiance Tool Station

Double Sided—Without Tools

Factory number D1200D Defiance Tool Station sold only with tool stock No. D1200, not sold separately. Shipped from factory freight prepaid. A deluxe self-service wood fixture, with glass bins for smaller tools, nuts, hooks and trim. Storage bins on both sides. A place for everything, and every tool priced. New price tickets will be mailed direct if any price changes in the future. Packed with everything needed for assembly such as glass bins, partitions, trays, hooks, brackets, etc. Tools are carefully selected and consist of only fast turning items with a small quantity of each. Takes up less than 9 square feet of floor space but gives 40 square feet of selling space.

Stock No.	Fact. No.	Inches Long	High	Wide	lb Each	Fact. List EACH
XND1200D	D1200D	60	58	20	210.	$179.50

Economy Tool Table

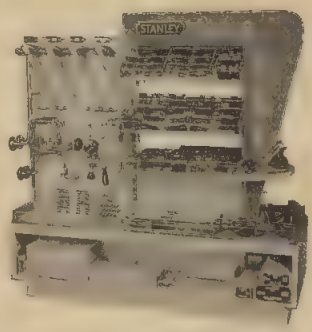
Double Sided—Without Tools

Factory number D1250D uses Defiance Tool Stock No. D1200T. Not sold separately and without tools. Shipped from factory, freight prepaid. Fits top of any standard island table. There is no installation problem, fixture arrives at your store completely assembled ready to stock with the Defiance Too. Stock. It is sturdy and colorful. Each item is priced, new price tickets for changes will be mailed direct to your store. Number and size on each bin for convenience in reordering.

Stock No.	Fact. No.	Inches Long	High	Wide	lb Each	Fact. List EACH
XND1250D	D1250D	57	56	22	85	$57.50

Stanley Tool Station

Double Sided—Without Tools



Factory number S100D. Stanley Tool Station sold only with tool stock No. S100T. Not sold separately. Shipped from factory prepaid.

The fixtures are space saving proved type of island fixtures for a mass display of tools, al clearly priced for self service and for impulse sales and faster turnover. Being double sided makes complete island display in a space of less than 9 square feet, but giving 40 square feet of selling space. They are sturdy, permanent fixtures made of wood with metal trim and attractively finished in color scheme that blends with any store interior. Packed with fixtures is everything needed for easy and quick assembly, such as glass bins, partitions, trays, hooks, brackets, price tags, also window streamers, etc. Many and many other sales helps are available on request. The tools are carefully selected to consist only of fast turning items with a very small quantity of each.

Stock No.	Fact. No.	Inches Long	High	Wide	lb Each	Fact. List EACH
XNS100D	S100D	60	58	20	235	*$119.50*

Stanley Tool Stock

Furnished with S100D Tool Station. Consists of 247 tools, mostly 2 or 3 of an item and only the faster selling items in the Stanley line. Total retail value $425.80

Quan.	Stock No.	Mfr's No.	Item	Retail List EACH
2	2N 601	100-6 1/4 in.	Auger Bit	$ 4.20
2	2N 602	100-7 1/8 in.	Auger Bit	4.25
2	2N 603	100-7 9/16 in.	Auger Bit	35
2	2N 604	100-8 15/16 in.	Auger Bit	4.45
2	2N 605	100-9 5/8 in.	Auger Bit	4.45
2	2N 606	100-9 3/4 in.	Auger Bit	65
2	2N 607	100-10 1/4 in.	Auger Bit	4.45
2	2N 609	100-12 1/4 in.	Auger Bit	4.45
2	2N 610	100-14 5/8 in.	Auger Bit	4.45
2	2N 612	100-16 1/8 in.	Auger Bit	4.25
2	2N 49	1/4 in.	Awl	.70
2	2N 4036	28 in.	Bevel	4.95
2	2N 758	8x8 in.	Bit Brace	6.50
2	2N 766	8½ in.	Bit Brace	5.50
2	2N 71	965N in.	Bit Brace	3.50
2	2N 646	8x8 in.	Bit Extension	2.25
2	2N 648	8½ in.	Chisel	20
2	2N 1642	60— in.	Chisel	5.05
2	2N 644	60—½ in.	Chisel	3.40
2	2N 1643	60— in.	Chisel	2.75
2	2N 1645	60— in.	Chisel	3.10
2	2N 1647	60—1½ in.	Chisel	3.35
2	2N 650	750— in.	Chisel	70
2	2N 1652	750— in.	Chisel	1.50
2	2N 1654	750—¾ in.	Chisel	1.85
2	2N 1656	750— in.	Chisel	2.00
2	2N 1657	750—1¼ in.	Chisel	2.25
2	2N 1658	750—1½ in.	Chisel	2.25
3	2N 1342	74 3/8 in.	Cold Chisel	47
3	2N 1345	74 in.	Cold Chisel	50
3	2N 1345	74 ½ in.	Cold Chisel	60
1	2N 1690	210	Chisel Electricians	3.10
1	2N 1693	1160	Chisels Plasterers	1.95
4	2N 65	137	Compasses	40
1	2N 63	139	Compasses	80
1	2N 2045	610	Drill	5.85
	2N 2046	1220	Arm	5.45
2	2N 20.0	45	Drill Push	4.35
1	2N 2050	600	Drill Point Set	50
2	2N 3813	99	Gauge Marking	1.40
2	2N 4076	1 in.-16 oz.	Hammers Nail	3.40
2	2N 4085	0 1/4 in.-16 oz.	Hammers Nail	3.40
2	2N 3856	51 in.-16 oz.	Hammers Nail	2.90
2	2N 4071	101 in.-18 oz.	Hammers Nail	2.40
2	2N 4401	210-16 oz.	Hammers Ball Pein	2.25
2	2N 4560	198	Knife	1.10
5	2N 4544	1991	Blades in Box	50
2	2N 4735	259	Level Torpedo	1.10
2	2N 4736	261	Level Torpedo	2.20
3	2N 4731	187	Level Line	05
2	2N 4671	0—24 in.	Level	3.10
1	2N 4678	257—24 in.	Level	7.35
1	2N 4702	113—24 in.	Level Aluminum	5.85
1	2N 4701	250—24 in.	Level Aluminum	8.65

Quan.	Stock No.	Mfr's No.	Item	Retail List EACH
1 doz.	2N 628	113—2 12 in.	Nail Sets	$0.25
1 doz.	2N 629	113—3 32 in.	Nail Sets	25
1	2N 635	9½	Plane Block	4.35
1	2N 6412	60½	Plane Block	4.35
1	2N 6392	140	Plane Router	2.45
2	2N 6390	191	Plane Router	1.00
1	2N 6 61	3	Plane Rabbet	7.50
1	2N 6602	4	Plane Rabbet	7.50
1	2N 6605	5	Plane Rabbet	6.70
1	2N 6608	10	Plane Rabbet	1.90
	2N 6 76	78	Plane Rabbet	6.20
2	2N 7426	65 in.	Punch Pin	47
2	2N 7426	80 in.	Punch Center	42
2	2N 7429	08 in.	Punch Hand	45
2	2N T 22	1585 in.	Rule Zig-Zag	1.50
2	2N 707	196 ft.	Rule Zig-Zag	1.50
2	2N T 29	227 ft.	Rule Waterproof	2.25
2	2N T 19	167 ft.	Rule Bricklayers	1.75
	2N 7355	200W ft.	Rule Pull Push	99
3	2N 7358	.202SW ft.	Rule Pull Push	95
3	2N 7457	1210W—10 ft.	Rule Pull Push	1.40
3	2N 7464	636W ft.	Rule Pull Push	75
3	2N 7 3	436 in.	Rule Angle	1.20
1	2N 7968	42	Saw Set	1.20
	2N 8 42	492	Scraper	95
3	2N 8 57	20 in.	Screw Driver	68
3	2N 8 58	24 in.	Screw Driver	70
3	2N 8453	20- 6 in.	Screw Driver	60
3	2N 8234	117 3 in.	Screw Driver	40
3	2N 824	77 6 in.	Screw Driver	45
3	2N 8221	2006—4 in.	Screw Driver	75
3	2N 8222	2009—6 in.	Screw Driver	1.05
2	2N 8250	2008 3 in.	Screw Driver	70
2	2N 8251	2008 6 in.	Screw Driver	70
3	2N 8256	3012	Screw Driver	47
2	2N 8266	4701	Screw Driver Phillips	45
3	2N 8097	4702	Screw Driver Phillips	47
3	2N 8 01	4712	Screw Driver Phillips	45
2	2N 8099	1 3H	Spring Ratchet Driver	3.05
2	2N 8108	2 3H	Spring Ratchet Driver	1.50
4	2N 8144	3400	Screw Driver Offset	95
3	2N 8273	3412	Screw Driver Offset	1.10
1	2N 9004	130A	Screw Driver Spiral	6.80
3	2N 8443	23—¾ in.	Screw Driver Bits	40
3	2N 8445	26—⅝ in.	Screw Driver Bits	50
2	2N 8563	22—12 in.	Square Combination	2.55
2	2N 8542	26—8 in.	Square Try	1.75
2	2N 8518	14—2 ft.	Square	2.95
2	2N 8519	100—3 ft.	Square	3.35
2	2N 8531	R100—2 ft.	Square	3.65
1	2W 9377	700	Vise	3.85
1	4W 9449	1209	Vise	3.15
1	2W 934	1210	Vise	3.45

Stock No.	Mfr's No.	Is Each	Fmct. List EACH
1N 4845	S100T	132	$42.80

CASTLE FILM 8MM AND 16MM MOVIE ASSORTMENTS

16mm BEST SELLING MOVIE ASSORTMENTS

Complete **100 FEET — 16mm MOVIE FILM ASSORTMENTS**

18 SELECTED 100 FT.-16mm SUBJECTS IN EACH ASSORTMENT DISPLAY KIT

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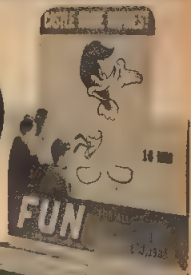
COMEDIES
CARTOONS
SPORTS

A made to order film assortment for more Film business at a SPECIAL LOW PRICE while quantities last. Select from group assortments listed below Assortments come packed in an attractive counter display with 18-16mm 100 ft subjects listed below only Order early to avoid disappointment

Retail per assortment 49 50
Dealer's cost per assortment net..... **29.70**

DEALERS DISCOUNT **40%**



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No. 1 Assortment
Spills and Thrills
Ride Em Cowboy
Lion-Tiger Fight
Night Before Xmas
Chimps Adventure
Tom-Tom the Piper's Son
W. C. Fields—The Great Chase
Abbott & Costello—No Indians, Please
Lawless Frontier
Gunlown
Gandy's Adventure
Wolf, Wolf
Mollywood Maiador
Knock, Knock
Andy's Blacksmith Shop
The Health Farm
Boy Meets Dog
Little Black Sambo

No. 2 Assortment
Cowboy Stampede
Sport Spellbinders
Chimp the Cowboy
Here Comes the Circus
Santa Claus' Punch & Judy
Robinson Crusoe
Mice and Council
Riot on Ice
Oysters and Muscles
Western Honor
Code of Courage
Frameup
Wreck of the Hesperus
The Lone Stranger
Nutty Pine Cabin
Bugs Beetle
Jack and the Beanstalk
Sinbad the Sailor

No. 3 Assortment
Thrills on Wheels
Chimp the Fireman
Bruins Make Mischief
Beatty's Animal Thrills
A Christmas Dream
Tricky Troubles
Kitchen Mechanics
Fun on the Run
Western Feud
Blazing Guns
Goose Flies High
Mighty Mouse Rides Again
Ace in the Hole
The Screw Driver
Mouse Trappers
Football Jamboree
Big Bad Wolf
Aladdin's Lamp

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DELIVERED IN FULL COLOR SELF SERVICE COUNTER DISPLAYS—

WESTERNS

CARTOONS

COMEDIES

SPORTS

Western Assortment

	No. Rolls in Asst. 16mm 100 Ft.	8mm 50 Ft.
HOPALONG CASSIDY		
Three On a Trail	3	4
Bar 20 Rides Again	3	4
Heart of West	3	4
JOHNNY MACK BROWN		
Western Feud	2	3
Lawless Frontier	2	3
KIRBY GRANT		
Blazing Guns	3	3
Western Honor	2	3
RODEO		
Cowboy Stampede	1	2

Cartoon Assortment "A"

	No. Rolls in Asst. 16mm 100 Ft.	8mm 50 Ft.
WOODY WOODPECKER		
Woody Dines Out	2	3
Ace In Hole	2	3
Loan Stranger	2	3
FAIRY TALES		
Jack and the Beanstalk	2	3
Big Bad Wolf	2	3
Little Black Sambo	2	3
MOUSE MOVIES		
Football Jamboree	2	2
Just Ask Jupiter	2	2
Fox Hunt	2	2

Comedy Assortment

	No. Rolls in Asst. 16mm 100 Ft.	8mm 50 Ft.
ABBOTT & COSTELLO		
No Indians Please	2	3
Fun On the Run	2	3
High Flyers	2	3
Kitchen Mechanics	2	3
Oysters and Muscles	2	3
Riot On Ice	2	3
W. C. FIELDS		
Hurry, Hurry	3	3
Great Chase	3	3

Cartoon Assortment "B"

	No. Rolls in Asst. 16mm 100 Ft.	8mm 50 Ft.
MIGHTY MOUSE		
Mighty Mouse Rides Again	2	3
Pandora's Box	2	3
Down With Cats	2	3
TERRYTOONS		
Devil of Deep	2	3
Bugs Beetle	2	3
Boy Meets Dog	2	3
ANDY PANDA		
Blacksmith Shop	2	2
Crow Crazy	2	2
Nutty Pine Cabin	2	2

Special Holiday Assortment

	No. Rolls in Asst. 16mm 100 Ft.	8mm 50 Ft.
Night Before Xmas	2	3
Punch & Judy Santa Claus	2	3
Christmas Dream	2	3
CARTOONS		
Woody Woodpecker—Loose Nut	2	3
Mighty Mouse—Eliza On Ice	2	2
Gandy Goose—Flying Fever	2	2
Fairy Tale—Old Mother Hubb'd	2	2
HOPALONG CASSIDY		
Bar 20 Rides Again	2	3
ABBOTT & COSTELLO		
No Indians Please	2	3

Animal Adventure Assortment

	No. Rolls in Asst. 16mm 100 Ft.	8mm 50 Ft.
Snookum Bears Rampage	2	3
Chimp the Cowboy	2	3
Bruins On a Spree	2	3
Lion Tige Fight	2	3
Ride 'Em Cowboy	2	3
Thrills On Wheels	2	2
Bruins Make Mischief	2	2
Here Comes the Circus	2	3
Chimp the Fireman	2	2

18 SELECTED 100 FT.-16MM SUBJECTS IN EACH ASSORTMENT DISPLAY KIT.
RETAIL PER ASSORTMENT 49.50.
DEALER'S PER ASSORTMENT, NET 29.70

34 SELECTED 50 FT.-8MM SUBJECTS IN EACH ASSORTMENT DISPLAY KIT.
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RED ENGLE AND HIS NATURAL SEVEN
Featuring the Albins and Karen Tedder—"Natural Seven Stomp", "The Man With the Big Sombrero"; "Steel Guitar Rag", and "Violin Concerto". **(No. MM1)**

JIMMY DORSEY AND HIS ORCHESTRA
Featuring the Mello-Larks and Dottie O'Brien. "Contrasts"; "Am I Blue"; "Lover"; "We Hate Cowboy Songs"; "Quien Sabe"; and "Jamboree Jones" **(No. MM6)**

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Now the Home Movie Sound Projector owner can bring to their screen the big hit, big name dance bands that have been shown from coast to coast in big theatres. Order now dealers, your customers will want to add these popular big name 2-reelers to their collection. Each 2-reeler on a 800 ft. 16mm reel. Retail 35.00. Dealer's, per 2-reeler 26.25. Lots of 3, each 23.33 Less 2% net... **22.86**
(Order by Number)

MATTY MALNECK

DESI ARNEZ AND HIS ORCHESTRA
Featuring Dulcina Clark "Taboo"; "Managua Nicaragua"; "I'll Take Tequila Rhumba"; "El Cumbanchero"; and "Boteando" **(No. MM5)**

CHARLIE BARNETT AND HIS ORCHESTRA
Featuring Clark Dennis and Virginia Maxes "Redskin Rhumba" "Pompton Turnpike"; "Peg O' My Heart"; "Jealousy"; and "Skyliner". **(No. MM2)**

BUDDY RICH AND HIS ORCHESTRA
Featuring Louis de Pron, and the Mello-Larks "One O'Clock Boogie"; "Let's Get Away From It All"; "John Had the Number But No Nickel"; and "So Long Joe" **(No. MM4)**

MATTY MALNECK AND HIS ORCHESTRA
Featuring Peggy Lee, and the Delta Rhythm Boys "My Blue Heaven" "Poet and Peasant", "Don't Blame Me"; "Dry Bones"; "I Don't Know Enough About You", and "Stompin' at the Savoy" **(No. MM3)**

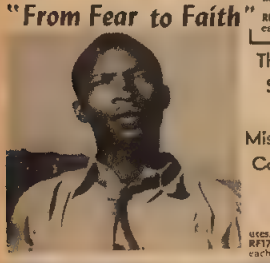
"Ruth"

Most beautiful Biblical film ever produced

Magnificently photographed, with much of the footage actually filmed in Palestine, this feature-quality J Arthur Rank production should be ordered as early as possible, to insure its availability when you need it.
Impartial reviewers in the church field say that this is the finest Bible picture they have ever seen! Running time 58 minutes. It tells the tender story of Naomi-and her daughter-in-law Ruth and the selfless love which culminated in the marriage that made Ruth ancestress of King David.

RF175R. each film net **200.00**

"From Fear to Faith"



Thrilling Story of Missionary Courage and Zeal

When a native youth, Mission-trained, returns to his Rhodesian home to teach his people a better way of life, he meets unexpected opposition from his own brother How he meets this problem, and leads his people "from fear to faith," makes an inspiring, dramatic and deeply moving story. A J Arthur Rank production, filmed in Rhodesia Running time 21 mins

utes.
RF176F each film net **100.00**

16mm RELIGIOUS FILM SOUND

NEW RELEASES

Here are six excellent and most appropriate sound films to fill the amazing surge of interest in such enlightening entertainment. These new releases available through United World Film at a moderate price to the dealer are already much in demand for rental.

"PRINCE OF PEACE"
We have frequently found that our Christmas stories are also used throughout the year, as part of the curriculum and to re-tell the Christmas story. "Prince of Peace" is such a film. It pictures the Annunciation and the long trip to Bethlehem. It shows the Shepherds in the fields, the appearance of the Angel, and the journey to the manger. We see the Three Wise Men following the star, stopping to visit King Herod on the way. They present their gifts after which Mary, Joseph and the Infant Jesus travel to Egypt. Running time 22 minutes.

RF177P each film net **100.00**

"THE WEDDING FEAST"
This latest J. Arthur Rank religious production has just become available. It tells the parable of the King, the Wedding Feast and the Righteous Man "Many are called but few are chosen," (Matthew 22 1-14). Running time 18 minutes.
RF178W each film net **100.00**

"WORLD COUNCIL OF CHURCHES—AMSTERDAM 1948"
This widely publicized film pictures the activities of the first World Assembly of Churches held from August 22 to September 4, 1948, attended by delegates of 138 religious bodies and 40 countries. It is being offered for sale at original production and distribution cost price, in order to make it as widely available as possible. Running time 22 minutes.
RF179A. each film net **65.00**

EASTER FILM
As the Easter season approaches, the demand for our picture, "THE RESURRECTION—FIRST EASTER," has increased, and we recommend an early order for purchase or rental, if you wish to have your print in time for the Lenten season. This fine J. Arthur Rank picture is a deeply reverent and spiritually moving film, useful for showing at any time of the year Running time 30 min.
RF180E each film net **150.00**

COMPLETE IN FEATURE LENGTH
CROWN OF THORNS. 8 reels—Stirring film portrayal of the life of Christ Retail, ea feature 175.00
RF128C. Dealers each feature, net **130.00**

ST. ANTHONY OF PADUA, 9 reels—Life and miracles of the famed Catholic Saint. Retail, each feature 190.00.
RF129P. Dealer's, each feature, net **130.00**

MOTHER CABRINI, 8 reels—Life of first American nun to be Beatified in Rome Dealer's, each feature 175.00
RF132M. Dealer's each feature, net **130.00**

MESSENGER OF THE BLESSED VIRGIN 9 reels Life of St Bernadette and Miracles of Lourdes Retail ea 180.00
RF130V Dealer's each feature net **130.00**

SAINT FRANCIS, 7 reels—Story of work and miracles of this beloved Saint. Dealer's, each feature 160.00
RF133F. Dealer's, each feature, net **120.00**

CHRISTUS, 7 reels—A moving version of the Life of Christ from His Birth to His Resurrection and Ascension Retail, each feature 160.00.
RF131C. Dealer's each feature, net **120.00**

IMMORTAL SAINT, 6 reels Inspiring film of the life of Joan of Arc Dealer's, each feature 140.00
RF134J. Dealer's, each feature net **100.00**

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MOVIES FOR EVERY OCCASION

Write For Illustrated Catalog of Castle Home Movies

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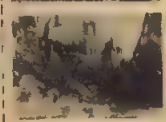
HISTORIC EVENTS

NEWS PARADE

NEWS PARADE	H	C	SOF	A	B
Crisis in Korea	173H	173C	173S	173A	173B
News Parade of 1950	172H	172C	172S	172A	172B
Holy Year of 1950	171H	171C	171S	171A	171B
News Parade of 1949	168H	168C	168S	168A	168B
News Parade of 1948	167H	167C	167S	167A	167B
News Parade of 1947	164H	164C	164S	164A	164B
News Parade of 1946	163H	163C	163S	163A	163B
News Parade of 1945	162H	162C	162S	162A	162B
Japan's Surrender	161H	161C	161S	161A	161B
Victory Over Germany	158H	158C	158S	158A	158B
News Parade of 1944	157H	157C	157S	157A	157B
Camera Thrills of War	156H	156C	156S	156A	156B
News Parade of 1943	144H	144C	144S	144A	144B
News Parade of 1942	135H	135C	135S	135A	135B
News Parade of 1941	125H	125C	125S	125A	125B
News Parade of 1940	120H	120C	120S	120A	120B
News Parade of 1939	114H	114C	114S	114A	114B
News Parade of 1938	109H	109C	109S	109A	109B

TRAVEL



WORLD PARADE:	H	C	SOF	A	B
Escape in Canada	242H	242C	242S	242A	242B
Caribbean Holiday	241H	241C	241S	241A	241B
Yellowstone	240H	240C	240S	240A	240B
Florida Holiday	239H	239C	239S	239A	239B
Grand Canyon	238H	238C	238S	238A	238B
Rome	237H	237C	237S	237A	237B
Bermuda	236H	236C	236S	236A	236B
America's Wonderland	234H	234C	234S	234A	234B
New England Holiday	233H	233C	233S	233A	233B
Belles of the South Sea	232H	232C	232S	232A	232B
Glacier National Park	231H	231C	231S	231A	231B
Banff and Lake Louise	230H	230C	230S	230A	230B
Yosemite	226H	226C	226S	226A	226B
Calif. Picture Book	224H	224C	224S	224A	224B
Mexico	218H	218C	218S	218A	218B
Bali	213H	213C	213S	213A	213B
Washington	212H	212C	212S	212A	212B
New York	211H	211C	211S	211A	211B
Hawaii	208H	208C	208S	208A	208B

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Dealers who place an order of $100 or more (on dealers' price) for Castle Films will earn the 33 1/3 off discount. Any future orders placed by the same dealer for Castle Films regardless of quantity will automatically receive the same 33 1/3 off discount. For more profit. Establish this new low discount rate today.

Black & White Subjects	Retail Each	Dealer's Each	$100 Net or More Asst	Orders in the Am't of
H—16mm Headline (Condensed 100' edition)	2.75	2.06	1.83	
C—16mm Complete Edition 4	8.75	6.57	5.83	
SOF—16mm Sound DeLuxe	17.50	13.13	11.67	
A—8mm Headline 50' edition	1.75	1.31	1.17	
B—8mm Complete Edition	5.50	4.13	3.67	

Color Subjects	Retail Each	Dealer's Each	$100 net or more asst.	Orders
Note: Only "Fairy Tale" Cartoons available in colors				
H—16mm, Headline (Condensed 100' Edition)	6.00	4.50	4.00	
C—16mm, Complete Edition	17.50	13.13	11.67	
SOF—16mm Sound DeLuxe	29.50	22.13	19.67	
A—8mm Headline 50' Edition	3.00	2.25	2.00	
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ADVENTURE

ADVENTURE PARADE:	H	C	SOF	A	B
Bruins Great Adventure	626H	626C	626S	626A	626B
Chimp The Sailor	625H	625C	625S	625A	625B
Bruins on a Spree	624H	624C	624S	624A	624B
Chimp on the Farm	623H	623C	623S	623A	623B
Snookum Bears Rampage	622H	622C	622S	622A	622B
Chimp the Cowboy	621H	621C	621S	621A	621B
Chimp the Fireman	620H	620C	620S	620A	620B
Bruins in a Canoe	619H	619C	619S	619A	619B
Lion-Tiger Fight	618H	618C	618S	618A	618B
Chimp the Aviator	617H	617C	617S	617A	617B
Bruins Make Mischief	616H	616C	616S	616A	616B
Crocodile Thrills	615H	615C	615S	615A	615B
Chimp's Jamboree	614H	614C	614S	614A	614B
Wing, Claw and Fang	612H	612C	612S	612A	612B
Bruins in the Woods	611H	611C	611S	611A	611B
Beatty's Animal Thrills	610H	610C	610S	610A	610B
Here Comes the Circus	609H	609C	609S	609A	609B
Thrills in Wildest Africa	606H	606C	606S	606A	606B
Elephant Roundup	602H	602C	602S	602A	602B

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Color Subjects

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H—16mm Headline (Condensed 100' Edition)	6.00	4.50	4.00
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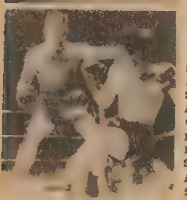
GREAT STARS

ACTION-FILLED WESTERNS

WESTERNS:	H	C	SOF	A	B
HOPALONG CASSIDY					
Heart of the West	563H	563C	563S	563A	563B
Bar 20 Rides Again	562H	562C	562S	562A	562B
Three on a Trail	561H	561C	561S	561A	561B
TEX WILLIAMS					
Cheyenne Cowboy	565H	565C	565S	565A	565B
West of Laramie	564H	564C	564S	564A	564B
JOHNNY MACK BROWN					
Western Feud	560H	560C	560S	560A	560B
Lawless Frontier	558H	558C	558S	558A	558B
Code of Courage	556H	556C	556S	556A	556B
KIRBY GRANT					
Blazing Guns	559H	559C	559S	559A	559B
Western Honor	557H	557C	557S	557A	557B
Guntown	555H	555C	555S	555A	555B

HOPALONG CASSIDY



SPORT PARADE

SPORT PARADE:	H	C	SOF	A	B
Football Parade of 1950	360H	360C	360S	360A	360B
Sports 'Round the Globe	359H	359C	359S	359A	359B
Harness Champion	358H	358C	358S	358A	358B
Snow Speed	357H	357C	357S	357A	357B
Sport Thrills of Year	356H	356C	356S	356A	356B
Football Parade of 1949	355H	355C	355S	355A	355B
Fishing Fun	354H	354C	354S	354A	354B
Bowling Aces	353H	353C	353S	353A	353B
Thrills on Wheels	352H	352C	352S	352A	352B
Calgary Cowboy Stampede	351H	351C	351S	351A	351B
Zale vs. Graziano Fight	348H	348C	348S	348A	348B
Football Parade of 1948	347H	347C	347S	347A	347B
Golf Magic	345H	345C	345S	345A	345B
Sun, Sea and Sails	343H	343C	343S	343A	343B
KnockOut Thrills	341H	341C	341S	341A	341B
Spills and Thrills	340H	340C	340S	340A	340B
Aqua Frolics	339H	339C	339S	339A	339B
Wonder Dogs in Action	336H	336C	336S	336A	336B
Daredevils on Ice	332H	332C	332S	332A	332B
Fishing Thrills	331H	331C	331S	331A	331B
Sport Spellbinders	325H	325C	325S	325A	325B
A Thrill a Second	320H	320C	320S	320A	320B
Simming and Diving	319H	319C	319S	319A	319B
Ride 'em Cowboy	313H	313C	313S	313A	313B

FUN

Abbott and Costello

Abbott & Costello	H	C	SOF	A	B
Midget Car Mechanics	818H	818C	818S	818A	818B
High Flyers	816H	816C	816S	816A	816B
Riot on Ice	814H	814C	814S	814A	814B
No Indians Please	809H	809C	809S	809A	809B
Oysters and Muscles	809H	809C	809S	809A	809B
Fun on the Run	811H	811C	811S	811A	811B
Kitchen Mechanics	812H	812C	812S	812A	812B

HOLIDAY SPECIALS

HOLIDAY SPECIALS	H	C	SOF	A	B
Woodie plays S'nta Claus	810H	810C	810S	810A	810B
Merry Christmas	803H	803C	803S	803A	803B
A Christmas Dream	815H	815C	815S	815A	815B
S'nta Claus P'nch & Judy	810H	810C	810S	810A	810B
Night Before Christmas	807H	807C	807S	807A	807B

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Ave Maria (Trailer)	522S

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OLD TIMERS

TREASURES FOR COLLECTORS AND ABSORBINGLY INTERESTING TO THE YOUNGER GENERATION

OLD TIME MOVIES	H	C	SOF	A	B
Gay 90's Live Again	504H	504C	504S	504A	504B
Yesterday Lives Again	501H	501C	501S	501A	501B
SPECIAL					
Camera Magic	806H	806C	806S	806A	806B

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THRILLS - CHILLS and HYSTERIA PACKED WITH ACTION

Hurry, Hurry	819H	819C	819S	819A	819B
The Great Chase	813H	813C	813S	813A	813B

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8mm and 16mm Silent and Sound Home Movies

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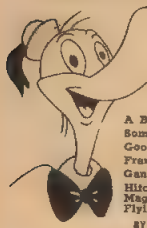


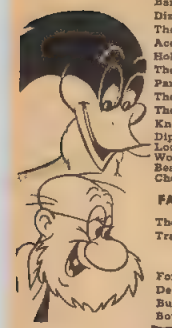
GANDY GOOSE:

	16MM			8MM	
	H	C	SOF	A	B
A Bully Romance	415H	415C	415S	415A	415B
Somewhere in Egypt	414H	414C	414S	414A	414B
Goose Flies High	413H	413C	413S	413A	413B
Frameup	412H	412C	412S	412A	412B
Gandy's Adventure	411H	411C	411S	411A	411B
Hitch Hikers	416H	416C	416S	416A	416B
Magic Pencil	417H	417C	417S	417A	417B
Flying Fever	418H	418C	418S	418A	418B

BY Walter Lantz

WOODY WOODPECKER

	16MM			8MM	
	H	C	SOF	A	B
Barber of Seville	460H	460C	460S	460A	460B
Dizzy Acrobat	459H	459C	459S	459A	459B
The Screwball	458H	458C	458S	458A	458B
Ace in the Hole	457H	457C	457S	457A	457B
Hollywood Matador	456H	456C	456S	456A	456B
The Loan Stranger	455H	455C	455S	455A	455B
Pantry Panic	454H	454C	454S	454A	454B
The Screw Driver	453H	453C	453S	453A	453B
The Cracked Nut	452H	452C	452S	452A	452B
Knock Knock	451H	451C	451S	451A	451B
Dippy Diplomat	461H	461C	461S	461A	461B
Loose Nut	462H	462C	462S	462A	462B
Woodie Dines Out	463H	463C	463S	463A	463B
Beach Nut	464H	464C	464S	464A	464B
Chew Chew Baby	465H	465C	465S	465A	465B



FARMER AL FALFA:

	16MM			8MM	
	H	C	SOF	A	B
The Health Farm	433H	432C	432S	432A	432B
Trailer Life	431H	431C	431S	431A	431B

TERRY-TOON CARTOONS:

Fox Hunt	728H	728C	728S	728A	728B
Devil of the Deep	726H	726C	726S	726A	726B
Bugs Beetle	727H	727C	727S	727A	727B
Boy Meets Dog	710H	710C	710S	710A	710B

ANDY PANDA

	16MM			8MM	
	H	C	SOF	A	B
Fish Fry	480H	480C	480S	480A	480B
Meatless Tuesday	479H	479C	479S	479A	479B
Andy's Garden	479H	478C	478S	478A	476B
Andy's Bi'ksmith Shop	477H	477C	477S	477A	477B
Goodbye Mr. Moth	476H	476C	476S	476A	476B
Nutty Pine Cabin	475H	475C	475S	475A	475B
Andy Panda's Pop	474H	474C	474S	474A	474B
Dizzy Kitty	473H	473C	473S	472A	473B
Mouse Trappers	472H	472C	472S	472A	472B
Crazy House	471H	471C	471S	471A	471B
Crow Crazy	481H	481C	481S	481A	481B
Painter & The Pointer	482H	482C	482S	482A	482B

MIGHTY MOUSE

	16MM			8MM	
	H	C	SOF	A	B
Eliza on Ice	775H	775C	775S	775A	775B
MightyMouseridesagain	774H	774C	774S	774A	774B
Jekyll and Hyde Cat	773H	773C	773S	773A	773B
Wolf, Wolf	772H	772C	772S	772A	772B
Wreck of the Hesperus	771H	771C	771S	771A	771B
The Mouse of Tomorrow	776H	776C	776S	776A	776B
He Dood It Again	777A	777C	777S	777A	777B
Down With Cats	778H	778C	778S	778A	778B
Pandora's Box	779H	779C	779S	779A	779B

MOUSE MOVIES:

	16MM			8MM	
	H	C	SOF	A	B
Football Jamboree	409H	409C	409S	409A	409B
Jazz Ask Jupiter	407H	407C	407S	407A	407B

WALTER LANTZ CARTOONS

16MM SOUND ONLY Black and White

	SOF	Color
COW COW BOOGIE	WL 1	
GREATEST MAN IN SIAM	WL 2	WL 2
BOOGIE WOOGIE MAN	WL 3	WL 3
BOOGIE WOOGIE SIOUX	WL 4	WL 4
SWING YOUR PARTNER	WL 5	
JUNGLE JIVE	WL 6	WL 6
Abou Ben Boogie	WL 7	
Pied Piper of Basin Street	WL 8	
Sliphorn King of Polaroo	WL 9	

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A—8mm Headline 50' edition	1.75	1.31	1.17
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COLOR FAIRYTALE CARTOONS BLACK and WHITE

FAIRY TALE CARTOONS—IN COLOR

Available in All Editions

16MM			8MM	
H	C	SOF	A	B
C915H	C915C			
C914H	C914C	C914S	C914A	C914B
C913H	C913C	C913S	C913A	C913B
C912H	C912C		C912A	
C910H	C910C		C910A	
C909H	C909C		C909A	
C907H	C907C			
C906H	C906C		C906A	
C903H	C903C	C903S	C903A	C903B
C902H	C902C		C902A	

FAIRY TALE CARTOONS—Black & White

Available in All Editions

16MM			8MM	
H	C	SOF	A	B
Jack in the Beanstalk	765H	765C	765S	765A	765B
Simple Simon	764H	764C	764S	764A	764B
Don Quixote	763H	763C	763S	763A	763B
Puss in Boots	762H	762C	762S	762A	762B
Big Bad Wolf	760H	760C	760S	760A	760B
Sinbad the Sailor	759H	759C	759S	759A	759B
Little Black Sambo	757H	757C	757S	757A	757B
Mary's Little Lamb	756H	756C	756S	756A	756B
Old Mother Hubbard	753H	753C	753S	753A	753B
Aladdin's Lamp	752H	752C	752S	752A	752B

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'Sun In the Sky'
'Let Me Shake Your Old Cowhand'
'Keep Rolling'

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Give Me My Saddle'
I'll Remember April'
Trigger Trail

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Woody Herman and his Orchestra
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GLORIA JEAN, JANE FRAZEE
'I'll Pray For You'
El Baco'
Amen

ROMANCE AND RHYTHM (MA 52)
featuring SKINNAY ENNIS, KENNY STEVENS,
THE SIX SWEETHEARTS
'Two Hearts That Pass in the Night'
Play Fiddle Play'
'Bicycle Built for Two'

RHUMBA CONGAS (MA 51)
featuring THE RITZ BROTHERS,
THE ANDREWS SISTERS and GEORGE REEVES
Rhumboogie'
'Amigo We Go Riding Tonight'
'Oh, He Loves Me'
'Brooklynonga'

HAWAIIAN RHYTHM (MA 50)
Matty Malneck and his Orchestra
with CONSTANCE MOORE
Aloha Oe
'My Loneliness Has Ended'
' Hawaii Sang Me to Sleep'

TROPICAL SWING (MA 49)
Desi Arnaz and his Orchestra
with ETHEL SMITH, THE KING SISTERS
'The Breeze and I'
' Cielito Lindo'
' Cuban Pete'

GEMS OF SONG (MA 48)
with DEANNA DURBIN
'Loch Lomond'
' La Boheme'
' Ave Maria

SNOWTIME JUBILEE (MA 47)
Johnny Long and Orchestra
with GINNY SIMMS
'I'd Like to Set You to Music'
' Happiness Bound'
' Slap Polka

FARMYARD FOLLIES (MA 46)
with Tex Jim Lewis and his Band
The King Sisters, Hill-Billyettes
'Hillbilly Bill'
I Love Mountain Music'
I've Sold My Saddle'

GERTRUDE NIESEN

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with GLORIA JEAN
The Walt Horth Trio
The Sportsmen Alpine Octet
''Sly Old Gentleman'
' Wintertime Wonderland'
'Fireside Medley'

OLD RUSSIAN JUBILEE (MA 44)
with GERTRUDE NIESEN and
Gregory Stone and his Balalaika Ensemble
' Protchay'
''Flaming Sword Dance''
''Babalichi''

RHUMBA RHYTHM (MA 43)
with WINI SHAW and VIVIEN FAY
Alfred Saville and Darryl Harpe
and his Rhumba Band
''Lady in Red'
''Cielito Lindo'
''Gypsy Chant'

SWING AND SING (MA 42)
with WILL OSBORNE and his Orchestra
MARTHA TILTON, The Brian Sisters
'Boogie Woogie Man'
Dixie'
Dancing on Air'
' Fantasia'

ARABIAN NIJINKS (MA 41)
with GERTRUDE NIESEN and Fuzzy Knight
' Temptation'
I Don't Like No Gals'
' La Cucaracha'

SOUTH OF THE BORDER SONGS (MA 35)
Rose Rio, The Velazcos and Lucille Angel
with Harbie Kay's Band
' Pan Americonga
' Say Si Si
'Mi Linda Amor''

SONGS OF THE RANGE (MA 31)
Carson Robison's Buckaroos, The Arthur Johnson
Singers and The Wakely Trio
When It's Springtime in the Rockies''
The Singing Hills
Git Along Little Pony''

RHYTHM IN RHAPSODY (MA 29)
Stan Kenton's Orchestra
with Nick Lucas, Bob Hannon and Revue
Tip Toe Thru the Tulips'
Moonlight Masquerade'
''The Night Is Young'

MERRY MUSICALS (MA 24)
with Ruth Clayton, the Four King
Sisters and Susan Miller
''Are You Havin' Any Fun'
'The Irish Washerwoman'
'Clarence''

CASTLE FILMS

MUSICAL VARIETIES (MA 17)
Willie Howard, supported by
Sugar Geise and Harlan's Co-eds
plus Vincent Lopez
'Tyrone Shapiro''
'Paddy Cake, the Baker Man''
' Minuta Waltz

SONGS OF THE SOUTH (MA 16)
The Dixieires and The Marshalls
''Showboat Melodies''
''Waiting for the Robert E Lee
''Dear Old Southland

MELODY LANE (MA 14)
Bob Chester's Orchestra, the Three Deanlog
Sisters and Michael Bartlett
By the Light of the Silvery Moon'
'Wait 'Til the Sun Shines Nellie
''Little Gray Home in the West'

SONGS OF THE WEST (MA 11)
Carson Robison and his Buckaroos
also Gus Van and Dick Thomas
Carry Me Back to the Lone Prairie''
The Mountains Meet the Sky'
I'm an Old Cowhand'

GAY NINETIES SONGS (MA 10)
The Eaton Boys and company in
nineteenth century settings
''I Want a Girl''
''Bicycle Built for Two''
'My Gal Sal''

SONGS OF ROMANCE (MA 8)
Orchestras of Emery Deutsch and Will Osborne
with Marylyn and Maxine
Stardust'
Two Guitars'
'Love's Old Sweet Song''

[illegible] (MA 3)
Men and Maids of Melody
with Michael Bartlett
Take Me Out to the Ball Game''
Sidewalks of New York'
In the Good Old Summertime''

SONGS OF THE IRISH (MA 2)
Lennie Ross, the Maxwell Girls and Gus Van
There's Nothing Like the Smile of the
Irish''
Who Threw the Overalls in Mrs Mur-
phy's Chowder''
It's a Great Day for the Irish

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sing with the orchestra and a dancing
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EGG CRACKER SUITE
(MA 38) Oswald Rabbit and his helpers in an Easter Egg plant make colors out of flowers and use baby rabbits as molds to make chocolate bunnies.

LAUGHS AND MUSIC
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CASTLE FILMS

JUKE BOX JAMBOREE
(MA 40) A sleepy mouse is whirled into a "Zowie" and he comes out of it feeling reckless. Nothing can keep him awake!

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FOR 16MM SOUND ONLY

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(No. B-3) Tommy has some great arrangements of the following popular numbers "All I do is Dream of You Camptown Races", "Medley" "I Never Knew I Could Love Anybody"

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(No. B-5) Try to keep your feet still when his great band plays "Woodchoppers Ball" "He's My Guy" "I See You in My Dreams", "Road That Tiger", "Deep in the Heart of Texas"

TONY PASTOR AND HIS BAND

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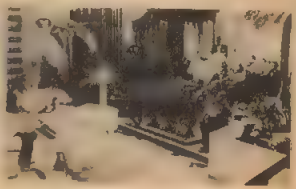
LOUIS PRIMA AND HIS BAND

(No. B-4) Louis never played more irresistibly than in these great numbers "Black Magic Harmonica Quintette Get on Board Little Chillen"

TED LEWIS AND HIS BAND

(No. B-2) Is everybody happy? Ted Lewis, the one and only gives out with "Sunny Side of the Street" "Me and My Shadow", "Three Blind Mice" "Isn't She Pretty", "I'm the Leader of the Band"



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(No. B-6) The Count really proves his mastery of modern music in this trio of hits— "Someone's Rocking My Dream Boat", "Delta Rhythm Boys", "Count Basie Boogie"

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LS11 Kernels of Corn	LS5 Sing and Be Happy
LS10 Choo Choo Swing	LS4 The Singing Barbers
LS9 River Melodies	LS3 A Bit of Blarney
LS8 Hits of Nineties	LS2 Let's Sing a College Song
LS7 Songs of Seasons	LS1 Let's Sing a Western Song

SING
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Write For Illustrated Catalog of Castle Home Movies

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SEE PAGE 221 FOR ORDER BLANK

BUCYRUS ERIE Tractor Equipment

- Hydraulic Bullgraders and Bulldozers
- Cable Bullgraders and Bulldozers
- Dozer-Shovels
- 2-Wheel Scrapers
- 4-Wheel Scrapers
- Power Control Winches
- Rippers
- Grubbers
- Tamping Rollers

For Perfect Teamwork with International Tractors

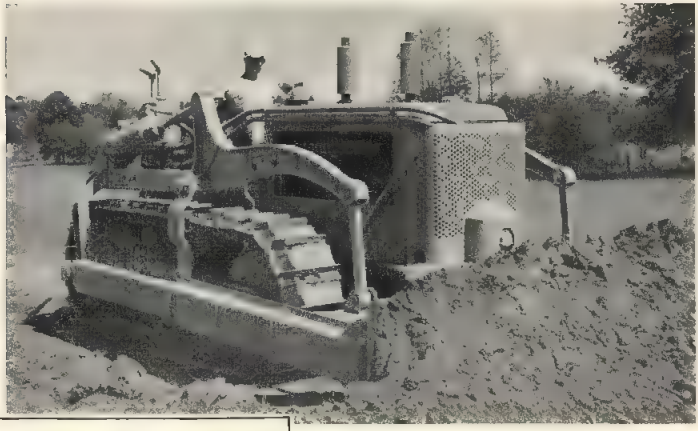
From big 22-yard scrapers on down to tamping rollers, Bucyrus-Erie offers you a complete line of equipment for use with International Crawler Tractors. Each unit in the line is balanced to do the best job of applying the power of these tractors. Each unit brings you advantages resulting from 69 years of experience in dirt-moving. When you buy Bucyrus-Eries, you get the toughest, most productive tractor equipment on the market.

The following pages briefly describe the machines in the Bucyrus-Erie tractor equipment line. Study them carefully—then ask us for complete details.

ASK FOR ILLUSTRATED BULLETINS AND SPECIFICATIONS

BUCYRUS ERIE **Tractor Equipment**

Hydraulic Bullgraders and Bulldozers



For these International Crawler Tractors

T-6	T-9	TD-6
TD-9	TD-14A	TD-18A

- Balance maintained for full-length crawler drive
- Fast accurate blade control
- Easy on tractor — loads properly applied
- Low pressure hydraulic system
- Positive down-pressure on blade
- Blades scientifically curved to roll dirt
- Bullgrader blade easy to angle and tilt
- Free track oscillation
- Full operator visibility
- Easy operation — handy controls
- Neat modern design
- Superior strength
- Complete range of sizes

ASK FOR ILLUSTRATED BULLETINS AND SPECIFICATIONS

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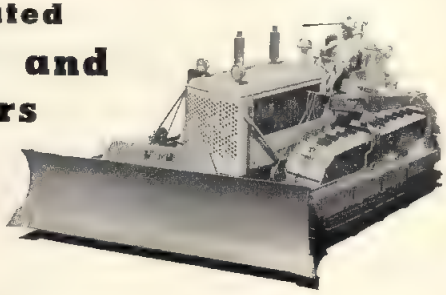
BUCYRUS ERIE **Tractor Equipment**

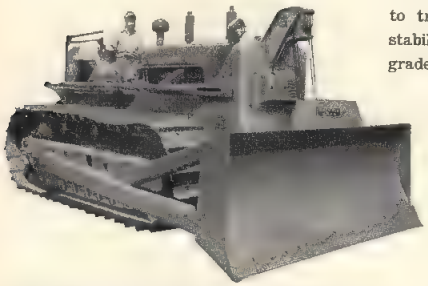
Cable-Operated Bullgraders and Bulldozers



For
International
Crawler Tractors
TD-14A
TD-18A

Bucyrus-Erie cable-controlled Bulldozers and Bullgraders for TD-14A and TD-18A tractors are similar in design to the hydraulic-controlled units. They are exceptionally well balanced, utilizing full-length crawler drive. Cable control is simple, fast acting. Enclosed cable provides safety and reduces abrasion, keeps rope wear low. Exceptionally high blade lift can be made, providing an unusually effective range of action for rough terrain.

Carefully designed and tested to match the tractor, Bucyrus-Erie Bullgraders and Bulldozers mounted on the International TD-24 tractors provide truly balanced earth-moving units. Strong and simple in construction, these new Bullgraders and Bulldozers retain Bucyrus-Erie design features which have proved sound over years of manufacture and successful earthmoving operations. Important features include: simple, effective cable control; combination of castings and weldments for greater strength; easy application to tractor; simple cable reeving; unusual stability; easy angling and tilting of Bullgrader blade.



For
International
TD-24
Crawler Tractors

ASK FOR ILLUSTRATED BULLETINS AND SPECIFICATIONS

78-R-51

BUCYRUS ERIE **Tractor Equipment**

G-38 3½ cu. yd. (struck)
G-38 5 cu. yd. (struck)

2-Wheel Scrapers

You can count on Bucyrus-Erie 2-wheel scrapers to keep busy earning profits for you because they're capable of handling a host of jobs. Fast and flexible, they can be used with crawler or rubber-tired tractors, can be teamed with Bullgraders or Bulldozers to form versatile dual units. They perform outstandingly in building and maintaining roads, stripping, leveling housing sites, and in a multitude of other ways. Look over the features listed here and ask us for complete details.

- Loads at front, dumps in rear
- Simple hydraulic control
- Positive down pressure on blade
- Double curved blade for fast uniform loading
- Balanced design, non-slap hitch for speedy hauling
- Ample flotation—low rolling resistance
- Exceptional stability
- Steep dumping angle for fast clean dump
- Strong, simple construction

ASK FOR ILLUSTRATED BULLETINS AND SPECIFICATIONS

78-4-51

BUCYRUS ERIE **Tractor Equipment**

Hydraulic Dozer-Shovels

For International Crawler Tractors T-6 TD-6 T-9 TD-9 ¾ to 1 cu.yd.

The Bucyrus-Erie Dozer-Shovel, with its long line-up of important features, has conclusively proved in thorough job tests that it's far ahead of the field in fast economical performance. It gives you all the advantages of its pace-setting predecessor plus greater speed, greater simplicity, greater visibility and easier operation. Check the features listed here, then ask us for complete details.

- Big buckets: ¾ and 1 cubic yard
- Hydraulic dump
- Faster operating cycle
- No imposed stresses on tractor frame and transmission case
- Easy to mount on tractor
- New Bucyrus-Erie Pump-Valve-Tank unit
- Bucket and blade down pressure
- Interchangeable bucket and blade
- Oscillating tracks
- Rugged design
- Extra high lift
- Improved visibility
- More operator room
- Tractor height clearance

ASK FOR ILLUSTRATED BULLETINS AND SPECIFICATIONS

78-5-51

BUCYRUS ERIE **Tractor Equipment**

S-Type 4-Wheel Scrapers

Combining important new improvements with all the proven features which have made Bucyrus-Erie scrapers outstanding for years, the complete new line of S-type scrapers gives you everything you need for low-cost dirt moving in the 4- to 10-cu. yd. range. These scrapers are built in sizes that correspond to sizes of International crawler tractors. Among the important features are:

S-46	4 cu. yd. (struck)
S-68	6 cu. yd. (struck)
S-91	8 cu. yd. (struck)
S-113	10 cu. yd. (struck)

- Drop-center front axle for level pull
- Large low-pressure tires for maximum flotation
- Two-part hinged apron for adjustable dump opening
- Goose neck for short turning radius and ample front wheel clearance
- "Boiling Action" for fast easy loading
- Positive rolling ejection for quick, clean dump
- Positive bowl return through torque-rod action
- Low center of gravity for greater stability
- Straight line cable reeving for long rope life

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8-6-51

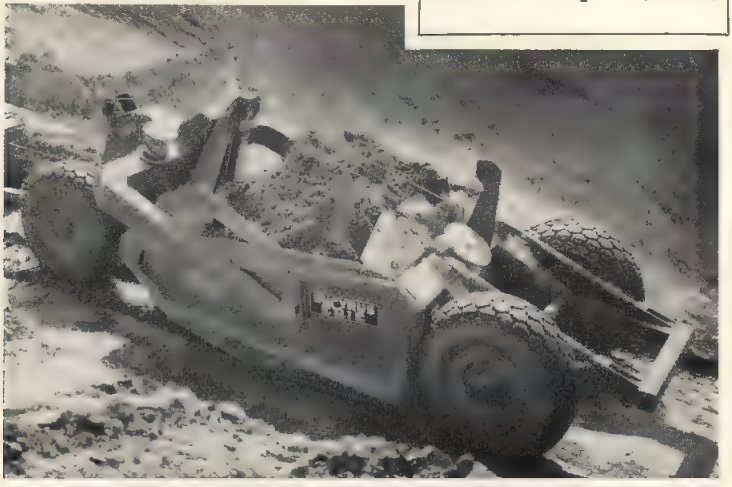
BUCYRUS ERIE **Tractor Equipment**

B-Type 4-Wheel Scrapers

The Bucyrus - Erie B - type front lift scrapers give you the same outstanding performance in the 15- and 22-cubic yard sizes that are available in the 4- to 10-cubic yard range. Many outstanding Bucyrus-Erie features, job-tested and proved in smaller capacity scrapers, have been incorporated in the design of these big scrapers — plus other important features developed exclusively for these large - capacity machines. Both the B-170 and B-250 models were designed specifically for use with the International TD-24 Tractor. Some of the important features are:

- Adjustable bar-type push bumper
- Big single tires
- Low fairlead sheaves, low tongue
- Short turning radius
- Exceptional stability
- Positive rolling ejection
- Two-section front apron
- Differential reeving
- Torque-rod bowl return
- Reversible side cutters

B-170	15 cu. yd.	(struck)
B-250	22 cu. yd.	(struck)



ASK FOR ILLUSTRATED BULLETINS AND SPECIFICATIONS

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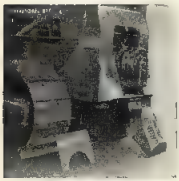
BUCYRUS ERIE Tractor Equipment

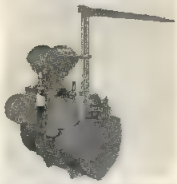
Power Control Winches



P-15 Single Drum (front mounted).

Improved planetary drive makes constant live power instantly available. Cushioned action saves cable, tractor, and equipment. Large external-type independent drum and planetary brake surfaces run cool, bands require infrequent adjustment for wear only. Bands are interchangeable, easily accessible, have single wear adjustment. Adjustable control levers mean easy operation.

P-25 Double Drum (rear mounted).



P-29 Double Drum (rear mounted).

Rippers

Bucyrus-Erie rippers are heavy-duty units with all welded main frames, heat-treated alloy steel standards, and drum-type wheels rolling on heavy-duty Timken bearings. Powerful braking action and fast, powerful lift; quick accurate control of digging depth, fast penetration; detachable standards with hard-surfaced replaceable points.

Grubbers

The Bucyrus-Erie grubber head has tough specially treated alloy steel teeth that reach down into the ground to grub out brush and saplings easily. The grubber is readily mounted on a Bullgrader frame after removal of the blade. It can also be purchased as a complete unit including frame, hydraulic attachments, and operating mechanism.

Tamping Rollers

Double drum models with oscillating frames. Watertight drums with axles that run the full length of the drum. Drums made of heavy steel plate, electrically welded, have openings for ballast. All frame members subject to stresses are constructed of steel channels in box section. Rollers have rear pulling connections for working in trains.

ASK FOR ILLUSTRATED BULLETINS AND SPECIFICATIONS

Salt Water Reels
Penn Reels

Atlantic

Deep Sea—Lake Trolling

Lowest priced reel without free spool mechanism. Spiral cut gears. Spool end play can be taken up by adjustable bearing. Bakelite end plates. Double multiplying. Metal parts are brass, nickel plated.

Stock No.	Mfr's. No.	Cap. Yds.	Ox. Each	Fact. List EACH
2V 5774	14	200	10..	$8.50

One in a box.

No. 80

Free spool. Synoro mesh. A salt water reel for deep sea, surf, pier, boat and bay casting. Equipped with easy cast light weight spool which produces long casts and reduces backlashes. Adjustable and removable spool bearings. Reel is made of genuine bakelite and brass, finished in nickel. Plate diameter, 2¾-in.; spool width, 1⅛ in.; line capacity, 200 yds. No. 9 or 150 yds. No. 12.

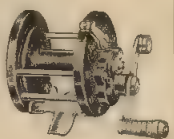
Stock No.	Mfr's. No.	Cap. Yds.	Ox. Each	Fact. List EACH
2V 5775	80	200	13	$4.00

One in a box.

Light Tackle Reel

For Bay Fishing

Ideal reel for light tackle bay fishing. Capacity 100 yards No. 9 line, 150 yards No. 6 line. Reel seat fits fresh and salt water rods. Triple cut spiral gears. Free spool clutch, controlled by a snap lever on rim. End play can be taken up by an adjustable bearing. Reel can be lubricated from outside. Metal parts are nickel plated. 2⅝ inch streamlined end plates beautifully engraved.



Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5780	190	100	$35.00

One in a box.

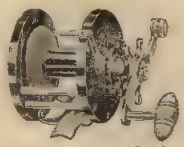
No. 85

Free Spool. Star Drag. A synoro mesh salt water reel for all types of fishing. Reel is made of new Penn plastic material. Spool is corrosion proof and a great line saver. Gears are always in mesh and cannot strip. Stainless steel springs. Shoting click. Adjustable and removable spool bearings. Line capacity 205 yds. No. 9 or 150 yds. No. 12.

Stock No.	Mfr's. No.	Cap. Yds.	Ox. Each	Fact. List EACH
2V 5776	85	200	13½	$5.50

One in a box.

Delmar



Free Spool—Star Drag—Torpedo handle. Pamphatic spool. Lightweight reel, excellent for live bait casting and bay fishing.

Stock No.	Mfr's. No	Cap. Yds.	Ox. Each	Fact. List EACH
2V 5777	285	250	13½	$7.00

One in a box.

Same reel as above with metal spool,

Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5778	285M	250	$7.50

One in a box.

Rental Reel

With red and yellow side plates. Plastic spool.

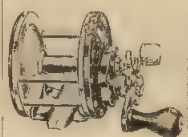
Stock No.	Mfr's. No.	Cap. Yds.	Ox. Each	Fact. List EACH
2V 5757	285	200	13½	$7.00

One in a box.

With red and yellow side plates. Metal spool.

Stock No.	Mfr's. No.	Cap. Yds.	Ox. Each	Fact. List EACH
2V 5758	285M	200	13½	$7.50

One in a box.



Light Tackle Reels

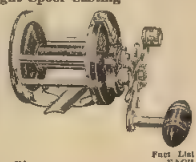
For Bay Fishing

Small light-weight reels that will add greatly to the pleasure of light tackle top and bay fishing. Capacity 100 yards of No. 9 line. Side plates are 2¾ in. in diameter and spool is 1⅜ in. wide. These reels are geared 3 to 1 for speedy reeling. Cross plate is constructed to fit salt and fresh water rods.

Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5779	190S	100	$7.50

One in a box.

Lightweight Spool Casting



Star Drag—Small, light-weight reel excellent for light casting and bay fishing. Equipped with light-weight spool for better casting. Triple multiplying crosplate made to fit salt and fresh water rods. Handle is fitted with torpedo grip. Streamlined metal bound end plates, equipped with star drag.

Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5783	160	150	$8.50
2V 5784	155	200	$9.50

One in a box.

Same reel as above with built in left hand.

Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5785	155LH	200	$10.50

Same reel as above with metal spool.

Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5786	155M	200	$10.00

One in a box.

Salt Water Reels
Penn Reels

Long Beach

Free Spool—Star Drag—The Long Beach is a Universal Sea Water reel. Equipped with the powerful Star Drag. The Free Spool snap lever is conveniently located on rim and the drag can be applied instantly without danger of stripping gears. The perfectly balanced and free running spool is excellent for casting. Gear train consists of hardened steel driving gear and stainless steel pinion. Handle is fitted with catalin torpedo grip and locking device. The one shot lubrication safeguards perfect performance. Metal parts are hand polished and chromium plated.

Stock No.	Mfr's. No.	Cap. Yds.	Oz.	Each	Fact. List EACH
2V 5791	60	250	17½		$8 00
2V 5792	65	300	18		$ 10 00
2V 5793	66	400	21		$ 13.00
2V 5794	67	500	23		$ 14 50
2V 5795	68	600	25		$ 16 00

One in a box.

Long Beach—Left Hand

Same high grade reel as regular Long Beach. Built in left hand model in 300 yd. size only.

Stock No.	Mfr's. No.	Cap. Yds.	Oz.	Each	Fact. List EACH
2V 5796	65L	300	19		$11 00

One in a box.

No. 149

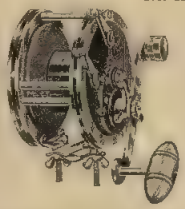
Deep Sea—Lake Trolling

Built along the lines of Mfr's. No. 49 reel but without the star drag throw off feature. Has plastic spool with 1¾ inch arbor for fast winding. Steel double multiplying gears. Oversize torpedo handle and free spool lever. Metal parts hand polished and chrome plated. Holds 250 yards No. 12 line.

Stock No.	Mfr's. No.	Cap. Yds.	Oz.	Each	Fact. List EACH
2V 5781	149	250	25		$12 00

One in a box.

No. 49



Deep Sea Lake Trolling

A fast action reel with 5¼ to 1 gear ratio. Plastic reel equipped with convertible star drag and can be fished as a star drag or free spool reel. A flip of a lever converts the reel. Gears are always in mesh and cannot strip. Oversize handle fitted with torpedo grip. Double metal bound end plates. Cross plates is fitted with an attached rod clamp. Chrome plated and polished metal parts. Capacity 250 yards No. 12 line.

Stock No.	Mfr's No.	Cap. Yds.	Oz Each	Fact. List EACH
2V 5782	49	250	30	$16 00

One in a box

With Metal Spool

Otherwise same as Mfr's No. 49.

Stock No.	Mfr's. No.	Cap Yds.	Oz Each	Fact. List EACH
2V 5787	49M	250	30	$17 50

Peer

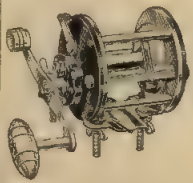
A level wind reel for salt water fishing with bakelite spool. 3¾ to 1 gear ratio for very fast action. External oiling on all gears and worm bearing. Heavily chrome plated. Weighs only 11 ounces.

Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5797	109	100	$11 00

With Metal Spool

Otherwise same as Mfr's No. 109.

Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5790	109M	150	$12 00



A level wind reel for salt water fishing with bakelite spool. 3¾ to 1 gear ratio for very fast action. External oiling on all gears and worm bearing. Heavily chrome plated.

Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5790	209P	200	$14 50

With Metal Spool

2V 5798	209	200	$ 15 00

Salt Water Reels
Penn Reels

Live Bait Caster

This reel is developed from our well known Long Beach reel, but redesigned especially for live-bait casting and equipped with our Easy Cast light weight spool, the weight of which is only one-half the weight of metal spools. In addition these spools are common proof for better line protection. This reel is equipped with triple multiplying noiseless steel gears never fail free spool clutch, power-ful star drag, torpedo handle rod clamp attachment and one-shot lubrication system. End plates are double metal bound and frame is made of nickel silver and chromium plated.

Specifications

Capacity 250 yards number 9, plate diameter 3 7/8 inch, spool width 3 1/4 inch, weight 20 ounces.

Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5805	259	250	$14 00

One in a box.

Same reel as above with built-in left hand model.

2V 5806	259LH	250	$ 15 00

Same reel as above with metal spool.

2V 5807	259M	250	$ 14 50

Surfmaster

Easy Cast
With Extra Spool
Take Apart

The Surfmaster reel is built along the lines of the Squidder reel, but held at a price within everybody's reach. It is light in weight, fast in action and equipped with our Easy-Cast light weight spool. An extra interchangeable spool is supplied with every reel. Gears are triple multiplying. Frame is made of nickel silver and chromium-plated. Made in three sizes for light and medium heavy fishing.

Stock No.	Cap. Yds	Plate Dia. In.	Spool Wd. In	Oz. Ea.	Fact. List EACH
2V 5809	100	2 3/4	1 5/8	15 1/2	$ 8 [illegible]
2V 5810	150	2 3/4	2 1/8	17	$ 11 50
2V 5811	200	2 3/4	2 1/8	18	$ 14 50
2V 5812	250	3 1/4	2 1/8	19	$ 15.50

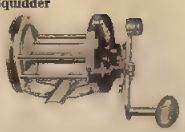
One in a box.

Same reel as above with built in left hand.

Stock No.	Mfr's. No.	Cap. Yds.	Fact List EACH
2V 5813	200LH	200	$15.50

Squidder

With Extra Spool
Take Apart
Finest in Casting Reels



Ball bearing, light weight, vecchonized spool. Gear ratio 3 1/2 to 1. Take apart feature. Convertible star drag. Free spool clutch. Stainless steel non-strip gears. Torpedo handle. One shot lubrication. Nickel silver frame. Chromium plated. The Penn Squidder is the last word in reel design. It is a tournament casting reel built for fishing. It is the best money can buy. It has many patented improvements which makes it the outstanding reel. Fish with a free spool reel and fight the fish with a star drag reel. No annoying clicking noise when reeling in. No need to constantly shift gear lever. Ball bearing spool. No friction to overcome in casting. No burning out of bearings. Interchangeable spool to carry an extra line. No need to lose precious fishing time.

Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5816	145	150	$22 00
2V 5817	140	200	$ 2 00

One in a box.

Senator

The Standard Big Game Fish Reel

Free Spool Star Drag. Especially designed for game fish trolling these reels are made to meet all requirements. All models are equipped with harness lugs and rod clamps. Forward rod brace on 9/0 and 12/0 sizes. All reels are equipped with Free Spool clutch and can be thrown into free spool or drag instantly and without danger of stripping gears. The powerful drag consists of automobile brake lining which cannot burn up, and the brake drum is safeguarded against freezing by an oilless bearing. Double multiplying gears consist of a hardened steel driving gear and stainless steel pinion. Handles are fitted with the powerful torpedo grip. Frames of German silver chromium plated. One shot lubrication, comb and with the built-in oil reservoire safeguard perfect performance and prevent freezing of the reel.

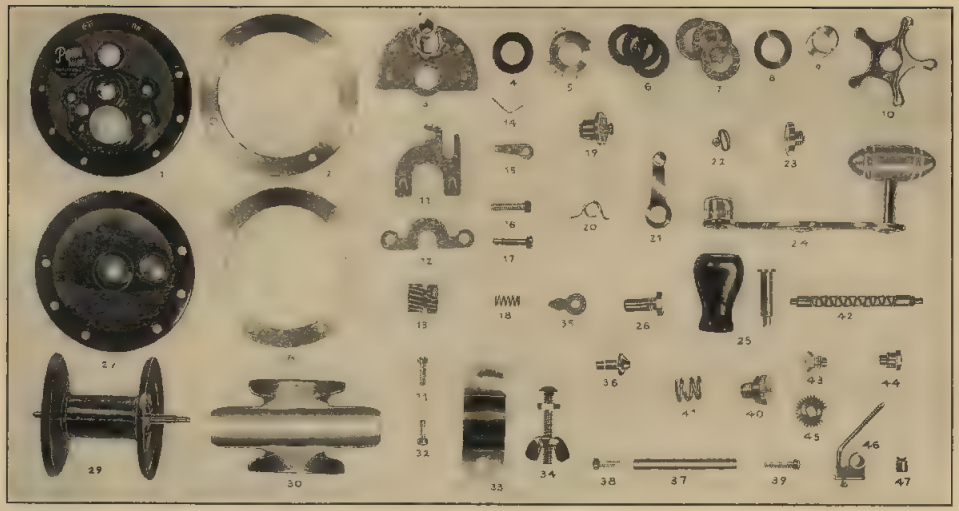
Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5818	110 1-0	250- 9	$ 31 00
2V 5819	111-2-0	300- 9	$ 17 50
2V 5820	112-3-0	400- 9	$ 19 00
2V 5821	113-4-0	300-15	$ 22 00
2V 5822	114-6-0	500-15	$ 32 00
2V 5823	115-9-0	500-24	$ 37 00
2V 5824	116A-10-0	600-24	$ 5 00
2V 5825	116-12-0	600-36	$ 6 00

Silver Beach

The Silver Beach reel is perfect for casting and trolling. This model is equipped with two interchangeable spools, giving two different line capacities in one reel. Light-weight plastic spool, the reel has a line capacity of 200 yds. No. 9 for surfcasting and squidding. Heavy duty metal spool has a line capacity of 200 yds. No. 12 ideal for trolling. Gear ratio is 3 to 1 for fast action. Diameter of reel 3 1/4 inch. Spool is 2 1/8 inch wide. Frame is made of nickel-silver and chromium plated.

Stock No.	Mfr's. No.	Cap. Yds.	Oz. Ea.	Fact. List EACH
2V 5800	99	200	21	$16 00

Illustration of Parts For Penn Reels



NOTE—Do not order parts by illustration number, use illustration number to find the part order number in parts list under reel number (No. stamped on front plate of reel
See Reel Accessories pages for reel part numbers and corresponding Union Hardware numbers
Left Hand Reels require special parts such as Main Gear, Pinion, Bridge Sleeve, Dog, Dog Spring, Spool and plate When ordering left hand parts mark letters (L.H.) after part number

Illustration No.	Name of Part
1	Right Side Plate
2	Right Side Plate Ring
3	Gear Bridge with Sleeve
4	Fibre Washer
5	Main Gear
6	Drag Washer, Leather
7	Metal Discs, set
8	Tension Spring
9	Spacing Sleeve
10	Drag Star
11	Eccentric Jack
12	Pinion Yoke
13	Pinion Gear
14	Dog Spring
15	Dog
16	Bridge Screw, upper long thread
17	Bridge Screw, upper short thread
18	Clutch Spring
19	Eccentric
20	Eccentric Spring
21	Eccentric Lever
22	Eccentric Screw
23	Handle Screw and Lock Screw
24	Handle Complete
25	Knob Rivet and Cap
26	Right Side Bearing
27	Left Side Plate
28	Left Side Plate Ring
29	Spool
30	Reel Stand
31	Right Side Stand Screw
32	Left Side Stand Screw
33	Reel Clamp
34	Clamp Screw with Nuts
35	Click Tongue
36	Click Button
37	Frame Post
38	Right Side Post Screw
39	Left Side Post Screw
40	Left Side Bearing
41	Bearing Spring
42	Worm
43	Right Side Worm Bearing
44	Left Side Worm Bearing
45	Worm Gear
46	Line Guide
47	Paw.

NOTE—For identification handle side is listed as right side, click side is listed as left side

Reel Accessories

Penn Reel Parts No. 1 to No. 9

Reel No	No. 1 Right Side Plate Part No.	Price Each	No. 2 Right Side Ring Part No.	Price Each	No. 2 Gear Bridge With Sleeve Part No.	Price Each	No. 4 Red Fibre Washer Part No.	Price Doz.	No. 5 Main Gear Part No.	Price Each	No. 6 Drag Washer Part No.	Price Doz.	No. 7 Metal Disc Set Part No.	Price Set	No. 8 Tension Spring Part No.	Price Each	No. 9 Spacing Sleeve Part No.	Price Each	Reel No.
49	1-49	1.00	2-49	75	...	...	4-60	24	5-49	.50	...	...	...	...	8-60	10	9-60	10	49
60	1-60	75	2-60	50	3-60	50	4-60	24	5-60	50	6-60	24	7-60	18	8-60	10	9-60	10	60
65	1-65	75	2-65	50	3-65	50	4-60	24	5-60	50	6-60	24	7-60	18	8-60	10	9-60	10	65
66	1-66	75	2-66	75	3-60	50	4-60	24	5-60	50	6-60	24	7-66	18	8-60	10	9-66	10	66
67	1-67	75	2-66	75	3-60	50	4-60	24	5-66	50	6-60	24	7-66	18	8-60	10	9-66	10	67
68	1-68	.75	...	...	3-60	.50	4-60	24	5-66	.50	6-60	.24	7-66	.18	8-60	10	9-66	10	68
80	1-80	75	...	...	3-80	.75	...	...	5-80	.50	...	...	...	...	...	...	...	...	80
85	1-85	.75	...	...	3-80	.50	4-60	.24	5-80	.50	6-60	.24	7-80	.18	8-60	.10	9-60	.10	85
99	1 99	1 50	2 99*	50	3 99	50	4 60	24	5 60	50	6 60	24	7 60	18	8 60	10	9 60	10	99
100	1-100	1 50	2 200*	50	3 200	50	4 60	24	5 60	50	6 60	24	7 60	18	8 60	10	9 60	.10	100
102	...	...	2-102	50	...	...	4-155	24	...	...	6-155	24	7-155	18	8-60	10	9-60	.10	102
110	1-110	.75	2-110*	50	3-60	.50	4-60	.24	5-60	.50	6-60	.24	7-60	.18	8-60	.10	9-60	.10	110
111	1 111	75	2 111*	50	3 60	50	4 60	24	5 60	50	6 60	24	7 60	18	8 60	10	9 60	10	111
112	1 112	75	2 112*	50	3 99	50	4 99	24	5 99	50	6 60	24	7 60	18	8 60	10	9 60	10	112
113	1-113	1.00	2-113*	1.00	3-113	.50	4-60	.24	5-66	.50	6-60	.24	7-66	.18	8-60	.10	9-66	.10	113
140	1 140	1 50	2 200*	50	3 200	50	4 60	24	5 60	50	6 60	24	7 60	18	8 60	10	9 60	10	140
145	...	...	2-200*	50	3 200	50	4 60	24	5 60	50	6 60	24	7 60	18	8 60	10	9 60	10	145
149	1 149	1 00	...	...	...	...	4 60	24	5 60	...	6 60	24	7 60	18	8 60	10	9 60	.10	149
150	1-150	1 50	2-200*	50	3-200	.50	4-60	.24	5-60	.50	6-60	.24	7-60	.18	8-60	.10	9-60	.10	150
155	1 155	75	2 155	50	3 155	50	4 155	24	5 155	50	6 155	24	7 155	18	8 60	10	9 60	10	155
160	1 160	75	2-155	50	3 155	50	4 155	24	5 155	50	6 155	24	7 155	18	8 60	10	9 60	10	160
165	1-165	75	2-155	.50	...	...	4-155	.24	5-155	...	...	...	...	...	...	...	...	...	165
180	1-180	.75	2-155	.50	3-155	.50	4-155	.24	5-155	.50	6-155	.24	7-155	.18	8-60	.10	9-60	.10	180
185	1-185	75	2 185	50	...	...	...	...	...	...	...	...	...	...	...	...	...	...	185
190	1-190	75	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	190
200	1-200	1.50	2-200*	.50	3-200	.50	4-60	.24	5-60	.50	6-60	.24	7-60	.18	8-60	.10	9-60	.10	200
249	1-249	1 00	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	249
250	1 250	.50	2 250*	50	3 99	50	4 60	24	5 60	50	6 60	24	7 60	18	8 60	10	9 60	10	250
259	1-259	.75	2-110*	.50	3-60	.50	4-60	.24	5-60	.50	6-60	.24	7-60	.18	8-60	.10	9-60	.10	259
285	1-285	.75	...	...	3-60	.50	4-60	.24	5-60	.50	6-60	.24	7-60	.18	8-60	.10	9-60	.10	285

See foot notes at bottom of page.

Stock No.	Mfr's. No.	Item	Fact. List EACH
2V 6100	1-60	Right Side Plate	$0.75
2V 6101	1-65	Right Side Plate	.75
2V 6102	1-66	Right Side Plate	.75
2V 6103	1-67	Right Side Plate	.75
2V 6104	1-68	Right Side Plate	.75
2V 6105	1-80	Right Side Plate	.75
2V 6106	1-85	Right Side Plate	.75
2V 6107	1-99	Right Side Plate	1.50
2V 6109	1-111	Right Side Plate	.75
2V 6110	1-112	Right Side Plate	.75
2V 6111	1-113	Right Side Plate	1.00
2V 6113	1-140	Right Side Plate	1.50
2V 6114	1-150	Right Side Plate	1.50
2V 6115	1-155	Right Side Plate	.75
2V 6116	1-160	Right Side Plate	.75
2V 6117	1-180	Right Side Plate	.75
2V 6118	1-200	Right Side Plate	1.50
2V 6119	1-250	Right Side Plate	1.50
2V 6120	1-259	Right Side Plate	.75
2V 6121	1-285	Right Side Plate	.75
2V 6126	2-60	Right Side Ring	.50
2V 6127	2-66	Right Side Ring	.75
2V 6128	2-99TA	Ring Complete, Inside and Outside	1.00
2V 6130	2-200TA	Ring Complete, Inside and Outside	1.00
2V 6131	2-250TA	Ring Complete	1.00
2V 6132	2-110	R. & L. Side Rings	.60
2V 6133	2-110D	R. & L. Side Rings	.60
2V 6134	2-111	R. & L. Side Rings	.60
2V 6135	2-111D	R. & L. Side Rings	$0.75
2V 6136	2-113	R. & L. Side Rings	1.00
2V 6137	2-113D	R. & L. Side Rings	1.00
2V 6138	2-155	R. & L. Side Rings	.75
2V 6140	3-80	Gear Bridge	.75
2V 6141	3-60	Gear Bridge w Sleeve	.50
2V 6142	3-99	Gear Bridge w Sleeve	.50
2V 6143	3-113	Gear Bridge w/Sleeve	.50
2V 6144	3-200	Gear Bridge w/Sleeve	.50
2V 6145	3-155	Gear Bridge w/Sleeve	.50
			PER 100
2V 6148	4-60	Red Fibre Washers	2.00
2V 6149	4-155	Red Fibre Washers	2.00
			EACH
2V 6151	5-60	Main Gears	.50
2V 6152	5-66	Main Gears	.50
2V 6153	5-80	Main Gear	.50
2V 6154	5-155	Main Gear	.50
			PER 100
2V 6156	6-60	Drag Washers	2.00
2V 6157	6-155	Drag Washers	2.00
			SET
2V 6159	7-60	Metal Discs Sets	.18
2V 6160	7-66	Metal Discs Sets	.18
2V 6161	7-155	Metal Discs Sets	.18
			EACH
2V 6162	8-60	Tension Spring	.10
2V 6163	9-60	Spacing Sleeve	.10
2V 6164	9-66	Spacing Sleeve	.10

*NOTE—For double rings, order inside ring by part number, for outside rings, mark letter (D) after part number

For take-apart inside notched ring for all Take-Apart Reels, mark letters (TA) after part number

For take-apart thumb screw for all Take-Apart Reels, use part No TA-206

Left Hand Reels require left hand parts such as Main Gear Pinion Bridge Sleeve Dog, Dog Spring Spool and Right Side Plate When ordering these parts for Left Hand Reels, mark letters (LH) after part number

Penn Reel Parts are interchangeable and are numbered in a way to easily indicate in which Reels the part will fit. The first number before the dash is the part illustration number from chart on preceding page, the number after the dash indicates the reel number for right side plate of reel). If the same part number is listed for different reel numbers, this part is interchangeable For example part No 80-80 (left side bearing No. 60 reel) fits all Penn Reels with exception of large Senator Reels and ball bearing reels. This is very important in servicing of Penn Reels as the number of parts required is cut down to a minimum

(NOTE—For 200 yd. Plastic Spool mark letter (P) after spool number for 200 yd Metal Spoon mark letter (M) after spool number

(NOTE—For short (3¾-in.) stand to fit baitcasting rods with offset reel seat mark letters (S) after stand number, for long (2¼-in.) stand to fit rods with straight reel seats mark letter (L) after stand number

Penn Reel Handles are interchangeable For oversize handle (larger than standard size take the next larger size Length of handle No 24-109 (3¼ in.) No 24-180 (3¾ in.) No 24 160 (3¾ in.) No 24 68 (4¼ in.) No 24 69 (5¼ in.) When replacing handle screw be sure to place handle screw before inserting arm, each screw If lock screw will not fit in groove do not back up handle screw but tighten more and work screw fits in handle screw groove.

NOTE—On Reels No 111 2 6 and No. 112-3/0 for "covered right side stand screw" use No 31-110C.

Reel Accessories

Penn Reel Parts No. 10 to No. 18

Reel No.	No. 10 Drag Star Part No.	Price Each	No. 11 Eccentric Jack Part No.	Price Each	No. 12 Pinion Yoke Part No.	Price Each	No. 13 Pinion Part No.	Price Each	No. 14 Dog Spring Part No.	Price Doz.	No. 15 Dog Part No.	Price Each	No. 16 Bridge Screw Lower Part No.	Price Doz.	No. 17 Bridge Screw Upper Part No.	Price Doz.	No. 18 Clutch Spring Part No.	Price Doz.	Reel No.
49	10-60	50	-		12-60	16	-		14-60	24	-		16-60	36	17-60	36	18-60	24	49
60	10-60	50	11-60	20	12-60	16	13-66	30	14-60	24	15-60	10	16-60	36	17-60	36	18-60	24	60
62	10-60	50	11-60	20	12-60	16	13-66	30	14-60	24	15-60	10	16-60	36	17-60	36	18-60	24	62
65	10-60	50	11-66	20	12-60	16	13-66	30	14-60	24	15-60	10	16-60	36	17-60	36	18-60	24	65
67	10-60	50	11-66	20	12-60	16	13-66	30	14-60	24	15-60	10	16-60	36	17-60	36	18-60	24	67
68	10-60	50	11-60	20	12-60	15	13-66	30	14-60	24	15-60	10	16-60	36	17-60	36	18-60	24	68
89	-		11-60	20	12-60	16	13-60	30	-		-		16-60	36	-		18-60	24	89
85	10-60	50	11-60	20	12-60	16	13-60	30	14-60	24	15-60	10	16-60	36	17-60	36	18-60	24	85
99	10-60	50	11-99	20	12-99	16	13-60	30	14-60	24	15-99	10	16-60	36	17-60	36	18-60	24	99
100	10-60	50	11-155	20	12-155	16	13-155	30	14-60	24	15-200	10	16-60	36	17-60	36	18-60	24	100
109	10-180	50	-		-		-		-		-		16-60	36	-		-		109
110	10-60	50	11-99	20	12-99	16	13-60	30	14-60	24	15-60	10	16-60	36	17-60	36	18-60	24	110
111	10-60	50	11-60	20	12-60	16	13-66	30	14-60	24	15-60	10	16-60	36	17-60	36	18-60	24	111
112	10-60	50	11-60	20	12-60	16	13-60	30	14-60	24	15-60	10	16-60	36	17-60	36	18-60	24	112
113	10-60	50	11-66	20	-		-		14-60	24	15-60	10	16-60	36	17-60	36	18-60	24	113
140	10-60	50	11-155	20	12-155	16	13-140	30	14-60	24	15-140	10	16-60	36	17-60	36	18-60	24	140
145	10-60	50	11-155	20	12-155	16	13-140	30	14-60	24	15-140	10	16-60	36	17-60	36	18-60	24	145
149	10-60	50	-		-		-		14-60	24	-		16-60	36	17-60	36	18-60	24	49
150	10-60	50	11-155	20	12-155	16	13-155	30	14-60	24	15-200	10	16-60	36	17-60	36	18-60	24	150
155	10-60	50	11-155	20	12-155	16	13-155	30	14-60	24	15-155	10	16-60	36	17-60	36	18-60	24	155
180	10-60	50	11-155	20	12-155	16	13-155	30	14-60	24	15-155	10	16-60	36	17-60	36	18-60	24	180
185			11-155	20	12-155	16	13-155	30					16-60	36	17-60	36	18-60	24	185
189	10-180	50	11-155	20	12-155	16	13-155	30	14-60	24	15-155	10	16-60	36	17-60	36	18-60	24	189
185	-		11-155	20	12-155	16	13-155	30	-		-		16-60	36	17-60	36	18-60	24	185
190	-		11-155	20	12-155	16	13-155	30	-		-		16-60	36	17-60	36	18-60	24	190
200	10-60	50	11-115	20	12-155	16	13-155	30	14-60	24	15-200	10	16-60	36	17-60	36	18-60	24	200
249	-		-		-		-		-		-		-		-		-		249
200	10-60	50	11-99	20	12-99	16	13-99	30	14-60	24	15-80	10	16-60	36	17-60	36	18-60	24	200
250	10-60	50	11-99	20	12-99	16	13-99	30	14-60	24	15-60	10	16-60	36	18-60	36	18-60	24	250
285	10-60	50	11-60	20	12-60	16	13-60	30	14-60	24	15-60	10	16-60	36	17-60	36	18-60	24	285

See foot notes on first page of charts.

Stock No.	Mfr's. No.	Item	Fact. List EACH
2V 6165	10-60	Drag Star	$0.50
2V 6166	10-180	Drag Star	.50
2V 6167	11-60	Eccentric Jack	.20
2V 6168	11-66	Eccentric Jack	.20
2V 6169	11-99	Eccentric Jack	.20
2V 6170	11-155	Eccentric Jack	.20
2V 6171	12-60	Pinion Yoke	.16
2V 6172	12-99	Pinion Yoke	.16
2V 6173	12-155	Pinion Yoke	.16
2V 6174	13-60	Pinion Gear	.30
2V 6175	13-66	Pinion Gear	.30
2V 6176	13-99	Pinion Gear	.30

Stock No.	Mfr's. No	Item	Fact List EACH
2V 6177	13-155	Pinion Gear	$0.30
2V 6178	13-140	Pinion Gear	.30
2V 6179	13-113	Pinion Gear	.30
			PER 100
2V 6180	14-60	Dog Spring	2.00
2V 6181	14-99	Dog Spring	2.00
			EACH
2V 6182	15-60	Dog	.10
2V 6183	15-99	Dog	.10
2V 6184	15-200	Dog	.10
2V 6185	15-140	Dog	.10
2V 6186	15-155	Dog	.10
			PER 100
2V 6187	16-60	Bridge Screw, Lower	3.00
2V 6188	17-60	Bridge Screw, Upper	3.00
2V 6189	18-60	Clutch Spring	2.00

Reel Accessories

Penn Reel Parts No. 20 to No. 30

Reel No.	No. 20 Eccentric Spring Part No.	Price Doz	No. 22 Eccentric Screw Part No.	Price Each	No. 23 Handle Screw Part No.	Price Each	No. 24 Handle Complete No.	Price Each	No. 26 Right Side Bearing Part No.	Price Each	No. 27 Left Side Plate Part No.	Price Each	No. 28 Left Side Ring Part No.	Price Each	No. 29 Spool Part No.	Price Each	No. 35 Reel Stand Part No.	Price Each	Reel No
14																	30-35	80	4
49	20-60	24	22-60	04	23-60	20			26-60	30									49
60	20-60	24	22-60	04	23-60	20	24-60	1 20	26-60	30	27-60	75	28-81	50	29-60	1 80	30-60	2 20	60
50	20-60	24	22-60	04	23-60	20	24-60	1 20	26-60	30	27-60	75	28-50	50	29-85	2 60	30-60	1 20	85
66	20-60	24	22-60	04	23-60	20			26-60	30	27-60	75	2-66	50			30-66	2 20	66
67	20-60	24	22-60	04	23-60	20			26-60	30	27-66	75	2-66	50			30-200	2 20	97
88	20-60	24	22-60	04	23-60	20			26-60	30	27-66	75	2-66	50					98
80	20-60	24	22-80	04					26-80	30	27-80	75			29-80	1 20	30-85	80	80
85	20-60	24	22-80	04					26-80	30	27-80	75			29-85	1 20	30-85	80	85
89	20-60	24	23-180	20	23-60	20	24-60	1 20	26-155	30	27-60	75	28-99*	50	29-201	1 20	30-99	2 20	99
100	20-155	24	23-180	20	23-60	20			26-155	30	27-200	75	2-155	50	29-100	1 20			100
109					23-180	20													109
110	20-60	24	23-180	20	23-60	20	24-60	1 20	26-155	30									110
111	20-60	24	23-180	20	23-60	20	24-60	1 20	26-60	30	27-	75	-		29-60	1 20	30-111	2 50	111
112	20-80	24	2-180	20	23-60	20	24-60	1 20	26-60	30	27-111	75					30-112	2 50	112
113	20-60	24	23-180	20	23-60	20			26-60	30	27-113	75					30-113	2 50	113
140	20-155	24	23-180	20	23-60	20	24-60	1 20			27-140	75	28-140*	50	29-140	1 50	30-266	2 20	140
145	20-155	24	2-180	20	23-60	20	24-60	1 20			27-140	75	28-145*	750			30-66	2 20	145
149	20-60	24	22-60	04	23-60	20	-		26-60	30									149
150	20-155	24	23-180	20	23-60	20	24-60	1 20	26-155	30	27-200	75	2-155	50	29-150	1 20	30-66	2 20	150
155	20-155	24	22-60	04	23-80	20	24-60	1 20	26-155	30	27-155	75	2-155	50	29-200	1 20	30-155	1 20	155
160	20-155	24	22-60	04	23-60	20			26-155	30	27-155	75	2-155	50	29-150	1 20	30-65	1 20	160
165	20-155	24	22-60	04	22-80	20			26-155	30	27-155	75	2-155	50	29-151	1 20	30-65	1 20	165
180	20-155	24	22-80	04	23-180	20			26-155	30	27-155	75	2-155	50	29-160	1 20	30-180N	2 20	180
185	20-155	24	22-60	04	23-180	20			26-155	30	27-155	75	2-155	0	29-160	1 20	30-180N	2 20	185
190	20-155	24	22-60	04					26-155	30					29-150	1 20	30-180N	2 20	190
200	20-155	24	23-180	20	23-60	20	24-60	1 20	26-155	30	27-200	75	2-155	50	29-200	1 20	30-200	2 20	200
249	-				23-60	20													249
250	20-60	24	23-180	20	23-60	20	24-60	1 20	26-155	30	27-250	75	28-250	50	29-250	1 20	30-200	2 20	250
280	20-60	24	23-180	20	23-60	20	24-60	1 20	26-155	30	27-280	75	2-155*	50	29-250	1 20	30-200	2 20	280
285	20-60	24	22-60	04	23-60	20	24-60	1 20	26-60	30	27-80	75			29-85	1 20	30-99	1 20	285

See fact notes on first page of charts.

Stock No.	Mfr's No.	Item	Fact. List PER 100
2V 6190	20-60	Eccentric Spring	2.00
2V 6191	20-155	Eccentric Spring	2.00
			EACH
2V 6192	22-60	Eccentric Screw	.04
2V 6193	23-180	Eccentric Idle Screw	.20
2V 6194	23-60	Handle Screw	.20
2V 5841	24-60	Handle Complete	1.20
2V 6195	26-60	Right Side Bearing	.30
2V 6196	26-155	Right Side Bearing	.30
2V 6198	27-60	Left Side Plate	.75
2V 6199	27-66	Left Side Plate	.75
2V 6200	27-85	Left Side Plate	.75
2V 6201	27-99	Left Side Plate	.75
2V 6202	27-200	Left Side Plate	.75
2V 6203	27-111	Left Side Plate	.75
2V 6204	27-113	Left Side Plate	1.00
2V 6205	27-140	Left Side Plate	.75
2V 6206	27-155	Left Side Plate	.75
2V 6207	27-250	Left Side Plate	.75
2V 6208	27-259	Left Side Plate	.75
2V 6210	28-60	Left Side Ring	.50
2V 6211	28-99	Left Side Ring	.50
2V 6212	28-99D	Left Side Ring	.50
2V 6213	28-140	Left Side Ring	.50
2V 6214	28-140D	Left Side Ring	.50
2V 6215	28-250	Left Side Ring	.50

Stock No.	Mfr's No.	Item	Fact. List EACH
2V 5842	29-100M	Spool	$1.80
2V 5843	29-150M	Spool	1.80
2V 5837	29-66M	Spool	1.80
2V 5835	29-65M	Spool	2.00
2V 5832	29-99M	Spool	1.80
2V 5834	29-200M	Spool	1.80
2V 5845	29-250M	Spool	1.80
2V 5840	29-100	Plastic Spools	2.20
2V 5833	29-150	Plastic Spools	1.20
2V 5838	29-65	Plastic Spools	1.20
2V 5839	29-140	Plastic Spools	1.50
2V 5831	29-99P	Plastic Spools	1.20
2V 5834	29-200	Plastic Spools	1.20
2V 5836	29-250	Plastic Spools	1.20
2V 6217	30-85	Reel Stand	.80
2V 6218	30-60	Reel Stand	1.20
2V 6219	30-65	Reel Stand	1.20
2V 6220	30-66	Reel Stand	2.20
2V 6221	30-155	Reel Stand	1.20
2V 6222	30-180L	Reel Stand	1.20
2V 6223	30-200	Reel Stand	2.20
2V 6224	30-99	Reel Stand	2.20
2V 6225	30-111	Reel Stand	2.50
2V 6226	30-112	Reel Stand	2.50
2V 6227	30-113	Reel Stand	2.50

Reel Accessories

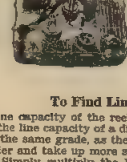
Penn Reel Parts No. 31 to No. 41

Reel No	No. 31 R. S. Stand Screw Part No.	Price Each	No. 32 L. S. Stand Screw Part No.	Price Each	No. 37 Frame Post Part No.	Price Each	No. 38 R. S. Post Screw Part No.	Price Each	No. 39 L. S. Post Screw Part No.	Price Each	No. 40 Left Side Bearing Part No.	Price Each	No. 41 Bearing Spring Part No.	Price Each	Reel No
14	31-285	24	31-285	24	37-60	20	31-60	24	31-60	24	40-60	30	41-60	10	14
40	31-110	24	31-110	24			38-60	24	38-110	24	40-60	30	41-60	10	40
60	31-60	24	31-155	24	37-60	20	38-60	24	31-60	24	40-60	30	41-60	10	60
65	31-60	24	31-155	24	37-65	20	38-60	24	31-65	24	40-60	30	41-60	10	65
66	31-60	24	31-155	24	37-65	20	38-60	24	31-60	24	40-60	30	41-60	10	66
67	31-60	24	31-155	24	37-67	20	38-60	24	31-60	24	40-60	30	41-60	10	67
68	31-60	24	31-155	24	37-68	20	38-60	24	31-60	24	40-60	30	41-60	10	68
80	31-285	24	32-155	24	37-60	20	31-60	24	31-155	24	40-60	30	41-60	10	80
85	2-285	24	32-155	24	37-60	20	2-60	24	2-155	24	40-60	30	41-60	10	85
90	31-200	24	32-110	24	37-65	20	38-200	24	31-110	24	40-60	30	41-60	10	90
100	31-200	24	31-285	24	37-150	20	38-200	24	31-60	24	40-60	30	41-60	10	100
110	31-110	24	32-110	24	37-150	20	38-110	24	31-110	24	40-60	30	41-60	10	110
111	31-110	.24	32-110	24	37-60	20	38-110	24	31-110	24	40-60	30	41-60	10	111
112	31-110	.24	32-110	24	37-67	20	38-110	24	31-110	24	40-60	30	41-60	10	112
113	31-110	.24	32-110	24	37-67	20	38-110	24	31-110	24	40-60	30	41-60	10	113
140	31-200	.24	31-110	24	37-150	20	38-200	24	31-110	24					140
145	31-200	.24	31-110	24	37-150	20	38-200	24	31-110	24					145
146							38-60	24	38-60	24	40-60	30	41-60	10	146
150	31-200	.24	31-285	.24	37-150	20	38-200	24	31-60	24	40-60	30	41-60	10	150
155	31-155	.24	32-155	24	37-155	20	31-60	24	31-155	24	40-60	30	41-60	10	155
160	31-155	.24	32-155	24	37-150	20	31-60	24	31-155	24	40-60	30	41-60	10	160
165	31-155	.24	32-155	24	37-160	20	31-60	24	31-155	24	40-60	30	41-60	10	165
180	31-285	.24	32-155	24	37-150	20	31-60	24	31-155	24	40-60	30	41-60	10	180
185	31-285	.24	32-155	24	37-150	20	31-60	24	31-155	24	40-60	30	41-60	10	185
190	31-285	24	32-155	24	37-150	20	38-60	24	31-155	24	40-60	30	41-60	10	190
200	31-200	24	31-285	24	37-155	20	38-200	24	31-60	24	40-60	30	41-60	10	200
249			31-149	24			48-60	24	38-60	24	40-60	30	41-60	10	249
250	31-200	.24	31-285	24	37-155	20	38-200	24	31-60	24	40-60	30	41-60	10	250
259	31-110	24	32-110	24	37-155	20	38-110	24	31-110	24	40-60	30	41-60	10	259
285	31-285	.24	32-155	24	37-60	20	31-60	24	31-155	24	40-60	30	41-60	10	285

See foot notes on first page of charts

Stock No.	Mfr's. No.	Item	Fact. List PER 100
2V 6228	31-60	R. S. Stand Screw	$2.00
2V 6229	31-285	R. S. Stand Screw	2.00
2V 6230	31-155	R. S. Stand Screw	2.00
2V 6231	31-200	R. S. Stand Screw	2.00
2V 6232	31-110	R. S. Stand Screw	2.00
2V 6233	32-155	L. S. Stand Screw	2.00
2V 6234	32-110	L. S. Stand Screw	5.00
			EACH
2V 6235	37-60	Frame Post	.80
2V 6236	37-65	Frame Post	.80

Stock No.	Mfr's. No.	Item	Fact. List EACH
2V 6237	37-67	Frame Post	$0 80
2V 6238	37-68	Frame Post	80
2V 6239	37-180	Frame Post	80
2V 6240	37-155	Frame Post	80
2V 6241	37-160	Frame Post	80
			PER 100
2V 6243	38-60	R. S. Post Screws	2 00
2V 6244	38-200	R. S. Post Screws	2 00
2V 6245	38-110	R. S. Post Screws	2 00
			EACH
2V 6246	40-60	Left Side Bearing	10
2V 6247	41-60	Bearing Spring	10



Penn Repair Parts Assortment—For All Reels

An Assortment of parts which enables the repairman to render quick and satisfactory service. Saves time and expense by eliminating reel back to factory.

Stock No.	Mfr's. No.	lb Asst
2V 5829	6	32

Fact. List EACH $20 00

To Find Line Capacity of the Reel

When the line capacity of the reel of a certain size of line is known, it is an easy matter to find the line capacity of a different size of line, providing that the lines are of approximately the same grade, as there are lesser grades of lines on the market which are much heavier and take up more space than the better grade lines having the same breaking test. Simply multiply the known line capacity in yards by the number of thread known, then divide the product by the number of threads of the line required The answer is the reel capacity in yards. Example as follows:

You know reel holds 300 yds. of number 9 line
You want to find the capacity of number 12 line.
Multiply 300 by 9 = 2700 divided by 12 = 225 yds.

Stanley Planes

Stanley "Bailey"

These are generally divided into four classes namely SMOOTH JACK FORE and JOINTER.

A SMOOTH plane is used for finishing or smoothing off flat surfaces. Where uneven spots are of slight area, its short length will permit it to locate these irregularities leaving the work smooth when finished.

A JACK plane is used to true up the edges of a board in the rough and prepare it for the FORE or JOINTER plane.

A FORE plane is simply a short JOINTER plane, and being lighter, is preferred by some workmen to the longer plane

A JOINTER is a finishing plane for large surfaces and is invariably used to true up the edges of boards so they can be closely fitted or joined together

All cutters are thin and of uniform thickness. This permits (1) Ease at grinding (2) Less grinding As a thin cutter can be kept in condition by honing (3) Less tendency to "stub off" the cutting edge when honing, hence the original bevel is kept much longer. They are made of the highest grade steel, the cutting and wearing qualities being known the world over. The adjustments of both cutters and frogs while different in detail are in each case the result of long years of study and provide a range of adjustment that will satisfy all requirements

Iron Planes
Smooth Bottoms—Adjustable

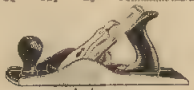
Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6360	2	7	1⅝	2½	N/A
2N 6361	3	8	1⅝	3¼	$7.50
2N 6362	4	9	2	3½	7.80
2N 6363	4½	10	2⅜	5	9.35

One in a box.

Junior Jack

Recommended for school shops.

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6367	5½	11½	1⅝	3½	$5.85



Jack

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6365	5	14	2⅜	4½	$ 8.70
2N 6366	5½	15	2½	6	11.50

Fore

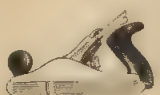
For finishing large surfaces.

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6368	6	18	2⅜	6½	$12.05

Jointer

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6369	7	22	2⅜	8	$15.60
2N 6370	8	24	2⅜	9	17.70

One in a box.



Smooth

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6372	3C	8	1⅝	3¼	$7.70
2N 6373	4C	9	2	3½	8.00

Iron Planes
Corrugated Bottoms—Adjustable

Jack

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6374	5C	14	2	4	$8.85

Fore

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6375	6C	18	2⅜	7.	$13 35

Jointer

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6376	7C	22	2⅜	8	$15 90
2N 6377	8C	24	2⅜	9	18.00

One in a box.

Stanley "Defiance" Bench Plane

Cast iron frame Bottom and sides polished. Balance of tool finished in black. Adjustable cutters, sidewise and sidewise. Hardwood handle and knob

Smooth Bottom—Adjustable

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6457	1203	8	1⅝	3	$5 55
2N 6458	1204	9	2	3½	6.10

One in a box.

Jack

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6459	1205	14	2	5	$9.85

One in a box

Bottoms are gray iron castings ground true, cast iron frog are integral part of bottom and furnishes rigid support for cutter Tempered tool steel double plane iron Black finish with sides and bottom ground. Red hardwood handle and knob

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Cat List EACH
2N 6464	1243	8	1⅝	2¾	$3 40

One in a box

Block Planes

Knuckle Joint Adjustable

The knuckle joint in the cap acts as a lever and forces the cap into position also clamps the lever securely Being made of steel, is practically indestructible. Adjustable for fine or coarse work

Nickel Plated Trimmings

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6385	13	6	1⅝	1¾	$5 55

One in a box.

Stanley Planes

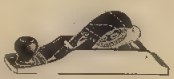
Block Planes

School—Steel Adjustable

This is a simple unbreakable block plane that you can recommend for school use. It is practically "boy proof" It is entirely made of steel and has a minimum of removable parts

Stock No.	Mfr's. No.	Lgth.	Cutter	lb Each	Fact. List EACH
		Inches			
2N 6403	118	6	1⅝	1¼	$5.60

One in a box



Double End Non-Adjustable

Two slots and two cutter seats Center seat and slot used for ordinary work, other seat and slot as a bull nose plane Ground bottom and sides, japanned trim. Hardwood knob

Stock No.	Mfr's. No.	Lgth.	Cutter	lb Each	Fact. List EACH
		Inches			
2N 6394	130	8	1⅝	1⅞	$3.85

One in a box.

Low Angle Adjustable Throat

The cutters in these planes have an angle of only 12 degrees, making them especially adapted to cutting across grain or knots are adjustable endwise by means of the adjusting wheel at the rear.

Non-Adjustable

Very popular Bottom and sides ground Japanned trim Has rosewood knob

Stock No.	Mfr's. No.	Lgth.	Cutter	lb Each	Fact. List EACH
		Inches			
2N 6392	110	7	1⅝	1½	$2.65

One in a box

Japanned Trimmings

Stock No.	Mfr's. No.	Lgth.	Cutter	lb Each	Fact. List EACH
		Inches			
2N 6412	60½	6	1⅝	1½	$4.35
2N 6413	60½	7	1⅝	1⅝	N A

With Knuckle Joint Lever

Nickel Trimmings

The cutter rests on its seat at an angle of 12 degrees. The low angle of the cutter makes it easy to plane a cross hardwood Nickel plated lever cap and trim

Stock No.	Mfr's. No.	Lgth.	Cutter	lb Each	Fact. List EACH
		Inches			
2N 6410	65	7	1⅝	1⅞	$5.40

One in a box

Defiance Block Planes

Non-Adjustable

Light and serviceable. Ground bottom, japanned sides and trim Tempered and polished steel cutter

Stock No.	Mfr's. No.	Lgth.	Cutter	lb Each	Fact. List EACH
		Inches			
2N 6391	102	5½	1⅜	2	$1.75

One in a box

Non-Adjustable

For ordinary work that doesn't require the tool to be frequently adjusted, this line is recommended for household use, and many mechanics carry one in their kits for odds and ends of light work Ground bottom Japanned sides and trim. Tempered and polished steel cutter

Stock No.	Mfr's. No.	Lgth.	Cutter	lb Each	Fact. List EACH
		Inches			
2N 6390	101	3½	1	1	$1.00

Six in a box

Block Planes

Adjustable

Easily held in one hand, while planing across the grain particularly the ends of boards. Cutter rests on its seat at an angle of 20 degrees instead of 45 degrees as in the ordinary bench plane. Cutter bevel is made on the upper instead of the lower side. Adjustable planes are especially recommended, as this feature allows the mouth to be easily and quickly opened or closed as coarse or fine work may require. Cutters are adjustable endwise and sidewise

Japanned Trimmings

Stock No.	Mfr's. No.	Lgth.	Cutter	lb Each	Fact. List EACH
		Inches			
2N 6381	9½	6	1⅝	1⅞	$4.35

One in a box

Not Adjustable

Stationary mouth otherwise identical to No. 9¼

Japanned Trimmings

Stock No.	Mfr's. No.	Lgth.	Cutter	lb Each	Fact. List EACH
		Inches			
2N 6380	9¼	6	1⅝	1½	$3.45

One in a box

Non-Adjustable

Japanned with japanned lever Tempered cutter Black hardwood knob. Bottom milled, sides ground.

Stock No.	Mfr's. No.	Lgth.	Cutter	Lbs. Each	Fact. List EACH
		Inches			
2N 6461	1247	7	1⅝	1	$1.55

One in a box.

Non-Adjustable

Pocket size block plane The cutter rest at a low angle of 12 degrees, making it easier to plane end grain on hard woods. Bottom ris es ground. Black finish on lever cap and sides.

Stock No.	Mfr's. No.	Lgth.	Cutter	lb Each	Fact. List EACH
		Inches			
2N 6402	1248	6½	1⅝	[illegible]	$1.00

One in a box, 48 in a carton

Adjustable

These planes in many ways are better adapted for average use than cheaper patterns. Designed especially for manual training use. Ground bottom and sides. Cutter is fastened by a lever and cam. Adjustable endwise, by screw at back. Rosewood knob. Japanned trim.

Stock No.	Mfr's. No	Lgth.	Cutter	lb Each	Fact. List EACH
		Inches			
2N 6400	203	5½	1⅝	1¾	$2.95
2N 6401	220	7	1⅝	1⅞	2 95

Non-Adjustable

Cutter adjustment made by wheel. Tempered steel cutter Bottom and sides milled and ground. Black finish with black lever cap Rosewood color hardwood knob

Stock No.	Mfr's. No.	Lgth.	Cutter	lb Each	Cat. Lsd EACH
		Inch			
2N 6460	1220	6½	1⅝	1¾	$2 10

One in a box

Stanley Planes

Bench Rabbet

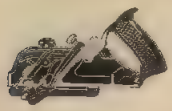
Especially adapted for the heavy framing required in mining work, for carriage or wagon building, or in any work of similar nature. Cutters are adjustable endwise and sidewise. Rosewood handles and knobs.

Stock No.	Mfr's. No.	Description	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6425	10½	Smooth	9¼	2¼	3¼	$12.10
2N 6426	10	Jack	18	2¾	4½	13.20

One in a box.

Duplex Rabbet and Filletster

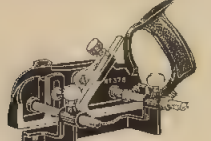
Made of iron. Has two seats for the cutter, one for regular and the other for bull-nose work. It has a spur and a removable depth gauge. The adjustable fence can be used on either side and slides under the bolt for regulating the width of the cut. Rear cutter is adjustable endwise. To work as a rabbet plane, remove fence and arm.



Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6429	78	8½	1½	3¼	$6.20

One in a box.

Weatherstrip Rabbet Plane



Designed for installing metal weather stripping. Can be used for all rabbet work within its limit. Fitted with a regular right and left hand depth gauge, adjustable fence with stop collars. Body and fence Japanned, nickel plated trimmings.

Stock No.	Mfr's. No.	Lgth. In.	Cutter In.	lb Each	Fact. List EACH
2N 6431	378	8	1¼	2½	$8.45

One in a box.

Iron Rabbet

Will be perfectly flat on either side and can be used equally as well with right or left hand while planing into corners or up against perpendicular surfaces. All have an iron stock and are fitted with a detachable depth gauge and a spur which permit them to be used for working across the grain.

Stock No.	Mfr's No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6435	100	8	1¾	2¾	$ 5.15
2N 6436	101	8	1¾	2¾	5.15
2N 6437	102	8	1	2	5.15

One in a box.

Cabinet Makers' Rabbet

2N6428 2N6421-22

Nickel Plated

Designed for fine cabinet work where extreme accuracy is required. The sides and bottom being square with each other the plane will operate on end grain as well as side and can be used right or left hand. The width of the bit at opening is adjustable. Can be closed or narrowed as desired for fine work may be required. Cutters are adjustable endwise. By removing the front a throat plane is obtained. No. 80 is bull nose pattern. Can be used close up into corners or other difficult places.

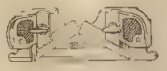
Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6420	90	4	1	1¼	$ 7.75
2N 6421	92	5½	¾	1¼	9.30
2N 6422	93	6½	1	1½	10.32

One in a box.

Cabinet Makers' Rabbet

Side Rabbet

Convenient plane for side rabbetting in trimming dados, mouldings and grooves of all sorts. A reversible nose piece allows it to be worked up into close corners when required. Nickel plated.



Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6433	79	5½	[illegible]	[illegible]	$5 [illegible]

One in a box.

Bull Nose Rabbet

Very useful for working close up into corners or other difficult places. Mouth adjustable for different widths by means of the set screw on top. Non-adjustable, Japanned trim.

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6428	75	4	1½	⅝	$1.90

One in a box.

Improved Dado

Will keep true even in the narrowest widths. The cutter is set on a skew. Plane is fitted with a depth gauge, adjustable spurs which can be adjusted to take up wear as well as for depth of cut.

Handled Iron

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6440	39½	8	⅝	2	$7.7[illegible]
2N 6441	39½	8	1½	2	7.7[illegible]
2N 6442	39¼	8	¾	2	7.15

Scrub or Roughing

For quickly planing down to rough dimensions any white board. This is made possible by the shape of the extra heavy cutter, edge of which is round instead of square. For use before using Jack or other plane. Iron body, japanned finish. Beechwood handle and knob.

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6451	40	9½	1¼	2¼	$7.15

One in a box.

Edge Trimming Block

For trimming or smoothing the edges of boards for a square or close fit, has right angle guide and cutter works on a skew, giving an easy shaving cut. Beveled wooden blocks may be attached to guide for making slanting cuts. Japanned finish.

Stock No.	Mfr's. No.	Inches Lgth.	Cutter	lb Each	Fact. List EACH
2N 6455	96	6	⅝	1¼	$3.60

One in a box.

Router Open Throat

Will smooth out the bottom of grooves, panels and all depressions below the general surface of any wood work, and will rapidly rout out mortises for sash frame pulleys. Bottoms are designed so that an extra wooden bottom of any size desired can be screwed on enabling the user to router on larger openings. Cutters are adjustable and can be held on the front of the cutter post for regular work, or on the back for bull-nose work. An attachment for closing the throat, for use on narrow surfaces and regulating depth of cut, is furnished Nickel plated, with nagle knobs. Has ¾ in. ⅛ in. and a patented smoothing cutter.

Stock No.	Mfr's. No.	Lgth. In	lb Each	Fact. List EACH
2N 6447	71	7½	2¼	$7.45

One in a box.

Stanley Planes

Small Router

Small and useful on very narrow pattern work. Also for carpenters in fitting in lock plates. Has case hardened thumb screw. Is constructed a closed throat for regular work or an open throat for pull stroke work. Can be used as a depth gauge. Nickel plated.

Stock No.	Mfr's. No.	Lgth. Cutter (Inches)	Ib Each	Fact. List EACH
2N 6449	271	¾	1¼	$7.85

One in a box.

Jointer Gauges

For use in connection with all sizes of iron jack or jointer planes. Will plane bevels of any angle between 30 and 90 degrees. Joints and curved surfaces are tracked. A wood surface of any desired curvature may be attached to this gauge providing a bearing surface longer or wider than the face of the gauge itself. For either right or left hand work. Nickel plated.

No. 365

Stock No.	Mfr's No.	Size In	Ib Ea.	Fact. List EACH
2N 6465	386	11x3	2¼	$6.80

One in a box.

Stanley "Fifty" Planes

Light Combination

Plow, Beading, Matching and Rabbeting

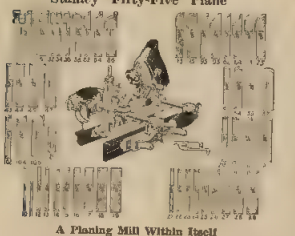
Very handy, for light work. Consists of a main stock, carrying a spur and a depth gauge, and forming a support for one side of the cutter a sliding section carrying a spur and forming a support for the other side of the cutter and a fence with a 5-in. adjustment. The handle is metal, being a part of the main stock. Nickel finish.

13 cutters as follows—

	Size Inches					
Plow and dado	⅛	⅛	⅜	⅞	½	⅝	⅞
Beading	⅛	⅛	⅛	⅛	⅜	1⅛	½
Tonguing	⅛						

Stock No.	Mfr's. No.	Lgth. In.	Ib Each	Fact. List EACH
2N 6416	50	8½	3¼	$18.50

One set complete in a box.

Stanley "Fifty-Five" Plane

A Planing Mill Within Itself

In addition to being a beading and center beading plane, a plow, dado, rabbet, filletster, and match plane and a sash plane and a slitting plane, is also a superior moulding plane, and will accommodate cutters of almost any shape and size.

Will take practically any form of cutter desired; its wide range of work will be appreciated.

The plane has A main stock, which carries the cutter adjustment a handle a depth gauge, a slitting gauge, and has a steel bottom forming a bearing for one edge of the cutter. A sliding section with a steel bottom gives bearing for the other edge of the cutter and slides on arms secured in the main stock. This section can be raised or lowered so that, in addition to allowing the use of cutters of different widths, cutters can be used having one edge higher or lower than the edge supported in the main stock.

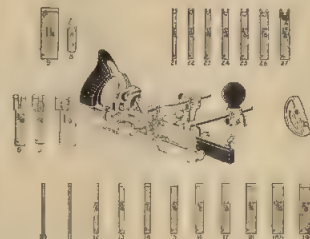
The main fence has a universal adjustment for extra fine work. The fences can be used on either side of the plane and the rosewood guides can be tilted to any desired angle up to forty-five degrees. The second fence can be reversed for center beading wide boards. Fitted with spurs for working across the grain and a special cam rest to be locked on the front arm when working at a distance from the edge of the board to keep the fence from sagging, or on the rear arm on certain work to prevent the possibility of the plane "rocking."

The regular equipment furnished with the plane comprises 33 irons and bits as follows: 1 sash tool 2 match irons, slitting, 1 0 gouter 11 plow and dado ⅛-in. to ¾-in., 8 beading ⅛ in. to ½ in. 4 sliding ⅛-in. to ⅜-in., 2 chamfer, 4 hollow beading to fit 4 round ⅛ in. to ½ in., 2-¼ hollow 2-¼ round 3 reverse 2 Roman ogee, 3 Grecian ogee 2-¼ round with bead 3 two bead reeding irons.

All metal parts are nickel plated. The handle and fences are made of selected rosewood and every part is well finished.

Stock No.	Mfr's. No.	Lgth. In	Ib Set	Fact. List EACH
2N 6417	55	10	15	$59.95

Stanley "Forty-Five" Plane



This useful tool is really combines seven planes in one, in a compact and practical form.

1.—Beading and center-beading plane. 2.—Plow. 3. Dado. 4 Rabbet and Filletster. 5.—Match plane. 6.—Sash plane. 7.—Slitting plane.

It has three principal parts.

The main stock carries the cutter, cutter adjustment, slitting tool, depth gauge, handle and provides a bearing for one edge of the cutter.

The sliding section slides on two arms, secured in the main stock and provides a bearing for the other edge of the cutter allowing cutters of different widths to be used.

The fence, which has a lateral adjustment for extra fine work, slides on these arms and is used when working the plane as a plow, beader or filletster to gauge the distance from the cutter to the edge of the board. The arms slide through the main stock so that the fence can be attached to either side according as the plane is used right or left hand.

Two sets of arms are furnished, one set 4⅞ inches and the other 8¾ inches long. Lancer arms can be furnished if desired. Spurs for working across the grain are attached to the main stock and sliding section. They can be readily turned up out of the way when not required. For beading at a distance from the edge of a board a metal cam is furnished to go on the front arm between the sliding section and fence. This will prevent the fence from sagging. This cam can be attached to the rear arm for work where it is desirable to keep the plane from "rocking."

Twenty-three cutters are furnished with each plane as follows: 11 plows and dado 7 beading, 1 filletster, 1 sash 2 match and 1 slitting.

All metal parts are nickel plated. The handle knob and fence made of selected rosewood.

Stock No.	Mfr's. No.	Lgth. In.	Ib Set	Fact. List EACH
2N 6415	45	9½	9½	$35.00

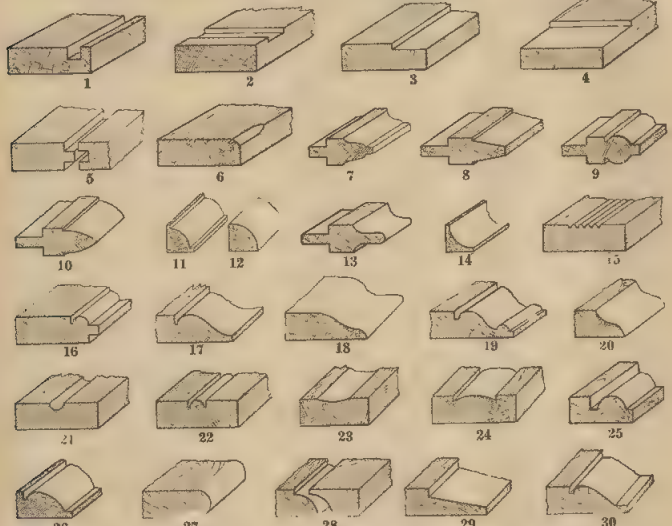
One set complete in substantial box.

NOTE—Any size or shape cutter made on special order. One set complete in substantial box.

Plane Cuts

Common Cuts Made with Stanley Planes Nos. 45, 50 and 55

These numbers are not plane bit numbers but simply illustrate the various kinds of cuts that can be made.



1 Flow Cut
2 Dado Cut
3 Rabbet Cut
4 Fillister Cut
5 Tongue and Groove
6 Chamfer
7 Ogee Sash
8 Bevel Sash
9 Ovolo Sash
10 Gothic Sash
11 Scotia
12 ¼ Round
13 Lambs Tongue Sash
14 Cove or ¼ Hollow
15 Reed
16 Edge Bead
17 Common Ogee
18 Roman Ogee
19 Grecian Ogee with Bead
20 Reverse Ogee
21 Flute
22 Cyma Bead
23 Hollow
24 Round
25 Astragal
26 Torus Bead
27 Nosing
28 Table Joint
29 Skip Lap
30 Grecian Ovolo or Ogee

Plane Parts

Stanley Plane Handles

Rosewood, varnished; bored and fitted for Stanley iron planes.

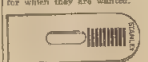
Stock No.	Mfr's. No.	Fits Planes	Pr. Doz.	Each, List
2N 6501	11	3, 4, 5½, 603, 604, C3, C4, 10½, 112, 3C, 4C, 5½C, 603C, 604C, C3C, C4C, 72, 605½	2	$1.00
2N 6502	11	4½, 4½C, 5, 5C, 5½, 5½C, 6, 6C, 7, 7C 8, 8C, 604½, 604½C, 605, 605C, 605½, 605½C, 606, 606C, 607, 607C, 608, 608C	2½	1.00

One-half dozen in a box.

Plane Irons

For Stanley Blade Planes

In ordering Plane Irons, please specify name and number of planes for which they are wanted.



ADJUSTABLE

NON-ADJUSTABLE

For Nos. 100, 101, 102, 110, 130 only

Stock No.	For Planes No.	Size In.	Each, List
2N 6490	100, 101	1	$0.35
2N 6491	60, 60½, 203	1⅛	.50
2N 6492	102	1⅜	.50
2N 6493	103	1⅝	.60
2N 6494	9½, 15, 16, 17, 18, S18 A18, 118, 151, 220, 120, 19, 63, 65, 65½	1⅜	.50
		1⅝	.45
2N 6495	110, 130	1⅞	.70
2N 6496	140	1⅝	.50
2N 6497	120	2	1.10
2N 6498	62, 64		

One-half dozen in a box.

Plane Parts

Stanley

Plane Irons

For Bench Plane

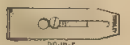
In ordering, it is necessary to give the number of the plane, size of iron and state whether single or double iron is required.

Single Plane Irons

Stock No.	For Planes No.	Size In.	Fact. List EACH
2N 6470	2, 2C, 602	1⅝	$1 05
2N 6471	3, 3C, 5¼, 5¼C, 20, 603, 603C, 605½	1¾	1 10
2N 6472	4, 4C, 5, 5C, 604, 604C 605, 605C	2	1 10
2N 6473	10, 10½	2⅛	1 70
2N 6474	605½, 605½C	2¼	1 70
2N 6476	4½ 4½C, 5½, 5½C, 6 6C, 7, 7C 604½, 604½C, 606, 606C, 607, 607C	2⅜	1 70
2N 6476	8, 8C 608 608C	2⅝	1 95

One-half dozen in a box

Plane Irons



Double Plane Irons (Plane Iron and Cap)

Stock No.	For Planes No.	Size In.	Fact. List EACH
2N 6480	2, 2C, 602	1⅝	$1 45
2N 6481	3, 3C, 5¼, 5¼C, 603, 603C, 605½	1¾	1 50
2N 6482	4, 4C, 5, 5C, 604, 604C, 605, 605C	2	1 50
2N 6483	10, 10½	2⅛	1 70
2N 6484	605½ 605½C	2¼	1 70
2N 6485	4½, 4½C, 5½, 5½C, 6, 6C, 7, 7C, 604½, 604½C, 606, 606C, 607, 607C	2⅜	1 90
2N 6486	8, 8C, 608, 608C	2⅝	1 95

One-half dozen in a box.

List of Plane Parts Regularly Carried in Stock

Plane Iron Cap Screws (Mfr's. No. 3)

Stock No.	For Planes Mfr's. No.	Also Used On Planes, Mfr's. No.	Cat. List EACH
2N 6504	2 to 8	602 to 608, 22 to 37	$0 15

One in a package

Lever Caps (Mfr's. No. 4)

Stock No.	For Plane Mfr's. No.	Also Used On Planes, Mfr's. No.	Cat. List EACH
2N 6507	3	3C, 5¼, 603 5¼C, 603C	$1.05
2N 6508	4	4C, 604, 604C, 5, 5C	1 10
2N 6509	4½	6, 7, 606, 607, 4½C, 6C, 7C, 606C, 607C, 5½, 605½	1 20
2N 6510	8	608	1 20
2N 6511	9½	9½, 15, 15½, 65½.	60
2N 6512	16	17	.85
2N 6513	18	19, 65, 318	1 35
2N 6514	60	61	.85
2N 6515	60½		60
2N 6516	78		.40
2N 6517	100	101, 100½	25
2N 6518	102	103	50
2N 6519	110	120 130	80
2N 6520	131	220	50
2N 6521	140		50

One in a package

Lever Cap Screws (Mfr's. No. 5)

Stock No.	For Plane Mfr's. No.	Also Used On Planes, Mfr's. No.	Cat. List EACH
2N 6525	2 to 8	602 to 608, 22 to 37	$0 15
2N 6526	60	60½, 61, 63, 65½	15

One in a box.

Frogs Complete (Mfr's. No. 6)

Stock No.	For Plane Mfr's. No.	Also Used On Planes, Mfr's. No.	Cat. List EACH
2N 6531	4	5 and C's	$1.35
2N 6532	8		1 80
2N 6533	60	60½, 61, 63, 65, 65½	35
2N 6534	131		.40
2N 6535	203	220	25

One in a package.

Adjusting Nut (Mfr's. No. 8)

Stock No.	For Plane Mfr's. No.	Also Used On Planes, Mfr's. No.	Cat. List EACH
2N 6566	4 to 8	604 to 608	$0 40
2N 6567	16	17, 18, 19	25
2N 6568	60	61, 63, 65, 60½ 65½	25
2N 6569	62		.25

One in a package

Knobs (Mfr's. No. 12)

Stock No.	For Plane Mfr's. No.	Also Used On Planes, Mfr's. No.	Cat. List EACH
2N 6540	3	4, 5½, 603, 604	$0 75
2N 6541	4½	604½, 605, 5	75
2N 6542	5½	6, 7, 8, 605½, 606, 607, 608	75
2N 6548	110	63, 120, 130, 131, 140, 220	25

One in a package.

Knob Bolt and Nut (Mfr's. No. 14)

Stock No.	For Plane Mfr's. No.	Also Used On Planes, Mfr's. No.	Cat. List EACH
2N 6547	3	4, 5½, 603, 604	$0 25
2N 6548	4½	5, 604½ 605	25
2N 6549	5½	6, 7, 8, 605½, 606, 607 608	25

One in a package

Eccentric Plate (Mfr's. No. 21)

Stock No.	For Plane Mfr's. No	Also Used On Planes, Mfr's No	Cat. List EACH
2N 6552	60	60½	$0 25
2N 6553	62		25

One in a package

Finger Rest Knobs (Mfr's. No. 22)

Stock No.	For Plane Mfr's. No.	Also Used On Planes, Mfr's. No	Cat. List EACH
2N 6556	9½	9½, 15, 15½, 60½, 65½	$0 25
2N 6557	16	17, 18, 19, 60, 65	25

One in a package.

Fence (Mfr's. No. 50)

Stock No.	For Plane Mfr's. No.	Also Used On Planes, Mfr's. No.	Cat. List EACH
2N 6559	78		$0 80

One in a package

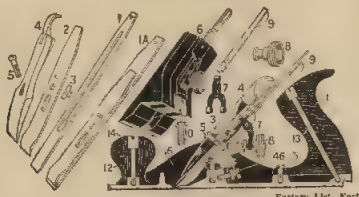
Spurs and Screws (Mfr's. No. 85)

Stock No.	For Plane Mfr's. No.	Also Used On Planes, Mfr's. No.	Cat. List EACH
2N 6561	45		$0 15

One in a package.

Plane Parts

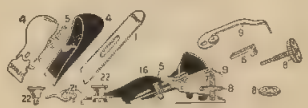
Stanley Planes



NO	Name of Part	No. of Plane—Factory List Each— 1-2-3C	2-3C	4 A4-4 4C	4½ 4½C	5 A5-5-3C	5¼ 5¼C	5½ 5½C	6 6C	7 7C	8 8C
3	Cap Screw	$0.10	$0.10	$0.10	$0.10	$0.10	$0.10	$0.10	$0.10	$0.10	$0.10
4	Lever Cap	75	80	85	1 00	90	95	1 00	1 00	1 00	1 00
5	Lever Cap Screw	10	10	10	10	10	10	10	10	10	10
6	Frog Complete	1 10	1 10	1 10	1 20	1 10	1 10	1 20	1 20	1 20	1 20
7	Y Adjusting Lever	10	10	10	10	10	10	10	10	10	10
8	Adjusting Nut	30	30	30	30	30	30	30	30	30	30
9	Lateral Adjusting Lever	20	20	20	20	20	20	20	20	20	20
10	Frog Screw	10	10	10	10	10	10	10	10	10	10
11	Plane Handle	60	60	60	60	60	60	60	60	60	60
12	Plane Knob	40	40	40	40	40	40	40	40	40	40
13	Handle Bolt and Nut	20	20	20	20	20	20	20	20	20	20
14	Knob Bolt and Nut	20	20	20	20	20	20	20	20	20	20
15	Handle Toe Screw				10	10	10	10	10	10	10
16	Plane Bottom	2 85	3 20	3 20	3 40	3 60	4 30	4 30	5 30	7 50	9 00
46	Frog Adjusting Screw	10	10	10	10	10	10	10	10	10	10

Add 10% for Corrugated Bottoms.
Add 30% for Bottoms and Frogs for Planes A4, A5, A6.
Add 10% for Bottoms and Frogs for Planes 84 and 85.

"Stanley" Block Planes



NO	Name of Part	No. of Planes—Fact. List Each— 9½	15	16, 17	18, 19	60	60½	62	65	65½
					818, A18					
6	Lever	$0.50	$0.50	$0.70	$1 10	$0 70	$0.50	$0 90	$1 10	$0 80
5	Lever Screw	10	10	10	10	10	10	10	10	10
7	Adjusting Lever	10	10	10	10					
8	Adjusting Nut	20	20	20	20	20	20	20	20	20
9	Lateral Adjusting Lever	20	20	20	20					
11	Plane Handle							60		
16	Plane Bottom	1 40	1 50	1 60	1 80	1 20	1 20	3 50	1 80	1 60
21	Eccentric Plate	20	20	20	20	20	20	20	20	20
32	Finger Rest Knob	20	20	20	20	20	20	30	20	20

Add 30% for Bottom for Plane A18. Add 10% for Bottom for Plane 818.

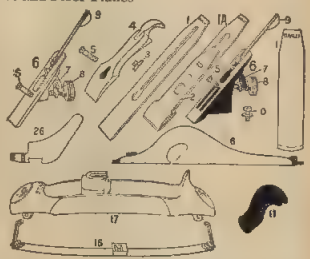
NO	Name of Part	No of Plane Fact List Each— 100	102	110	122	130	140	203	220
4	Lever Cap	$0.20	$0.45	$0.00	$0.00	$0.00	$0.00	$ 50	$0 50
5	Lever Cap Screw						10	10	1
8	Adjusting Nut						20	2	2
2	Plane Knob			20	20	20	20	20	2
26	Plane Bottom	80	80	1 20	1 50	2 2	2 00	1.26	1 35
18	Detachable Side						50		
19	Side Screw (pair)						20		

Plane Parts

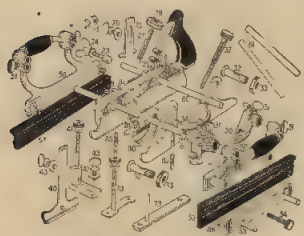
Stanley

Carriage, Circular, Scrub, Shoot and Floor Planes

No.	Name of Part	No. of Plane	10	10½	10¼	11	113	20	40	40½	5½
1A	Double Plane Iron		$1 80	$1 80	$1 80	$1 85	$1 85	$1 40	$1 40		$1 85
1	Single Plane Iron		95	95	95	1 15	95	80	40	50	1 15
2	Plane Iron Cap		70	70	70	80	65	45	-	-	80
3	Cap Screw		10	10	10	10	10	.09			10
4	Lever Cap		85	85	85	70	70	70	40	40	70
5	Lever Cap Screw		10	10	10	10	10	10	10	10	10
6	Frog Complete		1 10	1 10	1 10		1 10	1 10			95
7	"Y" Adjusting Lever		10	9	10	10	10	10			10
8	Adjusting Nut		20	20	20	20	20	20			20
9	Latera Adjusting Lever		20	20	20	-	20	20			20
10	Frog Screw		10	10	10		10	.10			10
11	Plane Handle		60	60	1 40	70	60		45	45	80
12	Plane Knob		40	40	1 00		1 00		.30	30	
13	Handle Bolt and Nut		20	20	20				20	20	20
14	Knob Bolt and Nut		20	20	20				20	.20	
15	Frog Bottom		4 40	4 40	3 00	3 45	1 80	2 20	1 90	2 65	7 95
17	Frog Casting						2 00	3 00			
28	Frog Seat							1 00			
35	Bottom Adjusting Screw						1 00	50			
38	Bottom Adjusting Nut							50			
85	Spurs with Screws				10						



Combination Planes



Add 20% for parts 16, 30 and 39 for plane A45.

No.	Name of Part	No. of Plane	45	46	50	55
1	Cutters, Regular	Per Set	$3.00	$4.00	$7 00	$19.00
16	Main Knock of Bottom		6.50	5.50	3.30	8.66
23	Cutter Bolt		.30	.30	.30	.30
24	" " Wing Nut		.30	.30	.30	.30
25	" " Clip and Screw		10	10		.10
27	" " Adjusting Screw		.20			.20
28	" " " Wheel		.20			.20
30	Sliding Section		4.60	4 60	60	1 75
32	Thimble					.30
33	" Check Nut					.30
34	Adjustable Bottom					3.85
37	" Screw					.40
40	Auxiliary Cutter Bottom					.60
42	Angle Iron and Adjusting Screws					.60
50	Left Fence		3.80	3 80	3 80	5 40
52	Tilting Guard Plate (Wood)		.40			.40
53	" Iron with Swivel					.80
54	Left Fence Adjusting Screw					.60
56	Right Fence					3.65
57	" Tilting Plate					.60
60	Long Arms	Per Pair	1.00	1 00	1 00	1.00
61	Short Arms	" "	.50	.50		.50
70	Adjusting Depth Gauge		.40	40	.40	.40
75	" Sliding Stop		.40			.60
79	Slitting Cutter Stop		.30		20	20
80	Cam Stop		.30			.30
85	Spurs with Screws		.10	.10	.10	10

Screws, Nos. 22, 31, 41, 43, 51, 58, 71, 78, 81, 86 and 87, $0.30 each.

Rabbet and Router Planes

NO.	Name of Part	No. of Plane	90, 92	92	94	98, 99	71,71½	75	96	97
1	Single Plane Iron		$0.60	$0.60	$0.60	$0.40	$0.60	$0.40	$0.30	$0.90
4	Lever Cap		.30	30	30	20		20	.30	30
12	Plane Knob					30	35			30
14	Knob Bolt and Nut									
15	Plane Bottom		*5 00	*5 80	*7 25	1.80	2.65	*.60	1 85	2.65
27	Cutter Bolt Adjusting Screw		40	40	40					
47	Extra Attach							50		
48	Cutter							50		

*Price is for both top and bottom. Not sold separately as they are machined to fit

Rabbet, Matching and Dado Planes

NO.	Name of Part	No. of Plane	39	48, 49	78	378	146 to 148	171	192 to 192	239	278	289
1	Plane Iron		**$3 40	$6 40	$6 40	**$6.00	*$1.80	$0.50	$0.60	$0.90	$0.95	$0.60
4	Lever		.20	20	.30	.20	.30		.40		.25	.40
5	Cutter Holding Screws		.10		.10	.10			.10		.10	.10
7	Adjusting Lever and Screw					.20						
16	Plane Bottom		** 3 80	6.40	3.20	3.50	4 00	2.90	2 90	4 60	3.20	3 70
50	Fence			1 00	.65	1.15		.90		.80	.50	.75
51	Fence Thumb Screw				.10	.20		.10		.10	.10	.10
61	Fence Arm				.20	.20		.40		.20	.20	.20
82	Fence Stop Collars and Screws					.15						
70	Adjusting Depth Gauge											
71	Depth Gauge Thumb Screw		.40		.40	$ .40			.40	.40	.40	.40
85	Spurs with Screws		.20		.20	.20			.20	.10	.20	.20
	Add 30% for Bottom and Fence for Plane A78.		.10		.10				.10	.10	.10	.10

**Specify inside or outside. §Specify size. †Specify long or short arm. *Groove Cutter $0.35. Match Cutter $1.00.

A Report on

Christmas Departments

in New York, Brooklyn, Newark, Philadelphia and Washington

By KAY HARDWICK

To BEARD TOY BUYERS in their dens right after one of the most devastating storms in history, and the sudden realization of the American people that we are once again at war, would make brave men quail. But not this reporter. How did the buyers feel about the situation? How had they taken blown-in windows and frightened customers in their stride? People will always buy toys, we have been told. Here was a chance to prove it.

There was a great deal of shrugging of shoulders, with hopes that a slow start due to many things, such as the storm and general war jitters, would be recouped in the last two weeks of business, thus meeting last year's figures or even going ahead. Many had a good October and November and were not letting the first week of December scare them.

Prices had not jumped to a point of frightening customers off and there was little danger of shortages that could mean last minute reorders at prohibitive prices.

Manhattan

Bloomingdale's

New York, as were its environs, was just digging out of one of the worst hurricanes in history and most of the plate glass windows had been repaired when I started my annual roundup of the toy departments at Bloomingdale's. Instead of the three window spread they had a single corner window with a merry-go-round displaying large stuffed toys and dolls as riders, while mannequin children watched the display. Dolls were banked against one wall and general toys on the other. A sign: "Hurry, Hurry for Toytown" set the mood for what waited on the seventh floor. There, white shingled pillars struck a new note in Christmas decorations. The tops were opened green shutters with gay animals peeking out. Selling fixtures were of green, with glass walls to hold in place merchandise piled on top of the counters. Self service was still the order of this department. Santa was enthroned on the sixth floor with the picture man busily clicking away. Practically every store has this feature nowadays.

Toy Buyer Mike Risavy agreed that Hopalong Cassidy was the biggest "name" in toy merchandise this year and was helping to keep western items in the limelight. There had been no trend toward war toys. Business had been late starting, but was getting better as each selling day came and went. Mr. Risavy had found temporary help bad, as usual, which is why this department continues with a self service arrangement. He did not think that overall increase of prices would amount to more than 2% to 3%. Trainer bikes were getting a big play. Dolls were selling right across the board, with both baby types and hard bodied ones in demand. The leading doll "name" here was Tiny Tears. This store has no hobby department so he had not noticed any increase in such merchandise, but games had been good. The Lionel Magne-Traction had been a good train feature. The whole new Louis Marx line was selling well.

F. A. O. Schwarz

A few blocks away, F. A. O. Schwarz

This toy display at F. A. O. Schwarz was set off with doll characters from Dickens dangling from the top of the window.

had as a holiday window feature a frieze of Dickens characters in all windows, with various types of toys dangling from them. Inside the shop, the entrance section of gay recesses, with indirect lighting, gave a chance to show particular types of toys away from too much competition on the regular counters. The doll section, further in, is really the answer to a little girl's prayer. Here is one of the finest collections of dolls in New York. On the second floor the train tables were well landscaped and running merrily, with the usual crowd of fathers watching the cars go round and round

Toy buyer Charles Stroebel reported that business was all right. November had been off but December was up. October had been well ahead of last year. He noted a definite trend toward war toys, but there weren't many on the market. There seemed to be no particular category that was outstanding. People were buying something of everything. The same went for dolls, as a classification. All types were in demand, but the outstanding single doll was Tiny Tears His single best items had been the pop corn and Coca-Cola machines. Hopalong Cassidy merchandise was doing well. Mr. Stroebel said help had been about the same as former years. He said the general rise in prices might reach 10% by the end of the year. His best advertising medium was still the Schwarz catalogue, which they have been featuring for years

Saks Fifth Avenue

At Saks Fifth Avenue the window featured their electric train setup with fascinating snow landscaping. The department as a whole was much as former seasons—with a new decorative note, however, of peasant-inspired full rounds of angels and Christmas trees for a border along the back fixture wall. They were silhouetted against lights and offered a quaint and different decor.

Altman's

Altman had another outstanding display of four windows on the 34th Street front. Each year these windows are worth noting, as the decorating department usually comes up with something new in window art against which to display the latest toys. This year they were masked-in with sheets and blocks of artificial ice through which could be seen two quaint peasant type houses in each. The toys were banked against, in front of, or tumbling out of these houses. Each window featured a different category of toys. In the department the decorations were more simple than

An unusual and highly effective window at Altman's.

has been noted in former years, and still very effective. The pillars were white. From the top of each dangled gay, wrapped packages and toys tied with wide satin ribbons of bright color. In the center of the department was a small ferris wheel turning slowly as various types of dolls and stuffed animals occupied the seats. The general stock was displayed in the usual open fixtures that are neat and easily identified This is one of the few stores that has a Santa Claus without the inevitable picture taking man.

Edna Cronin, toy buyer, said that business had been slow starting but was picking up as the season advanced. Customers seemed to be buying all categories more or less evenly. Trains had been good and dolls were being called for in all types. No trend toward war toys had been noted, and she was doing a very satisfactory business in games. Miss Cronin thought that a general rise in prices had been the rule in only a few categories—but it might account for about 10% in the overall picture.

McCreery's

Only one small window was noted in McCreery's, which utilized the idea of mannequin children playing with toys. In the department the same circular arrangement of former years had been followed. The ceiling as brought down to only a few feet above the heads of the customers, with mixed color tinsel snowflakes hanging by strings that allowed for their turning slowly in the drafts of circulation. It gave a very intimate effect.

Zen Hart, toy buyer, had found business off in general and was sure that at least 10% increase in prices would be recorded. His experience was that Hopalong Cassidy was the outstanding name in toys this year. Dolls were selling across the board, and he had done exceptionally well with the large undressed baby doll at around $8.00. He had sold more than 1,000 pieces with special promotional ads. His best advertising medium was newspapers. Good help had been difficult to obtain.

Macy's

For a feature window, Macy's repeated the "Off to Grandfather's House We Go" from last year. But they also had one of the most unusual and beautiful doll windows noted in many a season It had as a background, against which to display some of this store's most beautiful dolls, an old-fashioned shop with a mannequin shopkeeper in the clothes of the mauve decade and a little girl customer in the costume of Alice in Wonderland. On the shop counter a number of items were animated and the figures bobbed up and down to give life to the whole window On the shelves behind the counter were rococo back cases displaying dozens of beautiful dolls. The department on the sixth floor is huge and animated. Santas (of which there were three at all times, with one relief man) with pictures were on the seventh floor. The waiting lines of children with parents were kept amused with giddy wall panels to attract the eye, and soft music to soothe the ear. As last year, an excellent display of toys was arranged in Santa's sitting room at the exit. Free candy canes were given each child. On the toy floor was another attraction in the form of an "Animal Christmas Fair." This is really an excellent idea for city kids, as many seldom see live animals. The display showed the ani-

This mannequin shopkeeper displayed his wares in one of Macy's exciting windows.

mals preparing for the Night Before Christmas. In enclosures behind the live animals were prop animals hanging up their stockings, or the young snoring in bed. Thus, for instance, a mother and father prop goat getting their offspring to bed, with live goats in the pens in front, delighted children of all ages. As the children left this attraction they could have their pictures taken with the Frosty Snow Man, in the same fashion that the Mad Shutter Man was taking them with Santa Claus on the floor above. (Santa was still holding his own against this competition.) This Snow Man theme was carried out in the department as a top fixture decor, for displaying signs to indicate where various types of toys might be found

Gimbel's

Gimbel's, down the street, repeated their corner window with Santa coming out of the chimney every fifteen minutes against a background of a sleigh full of toys, and prancing reindeer, two of which seemed crashing through the Broadway windows. In fact, they seemed to have gotten loose in the store this year. On every landing of the escalator there was the head of one peering down, advising the customers that they would shortly see the whole troupe in person, on an upper floor. Each of these heads had the name of one of the famous octet. Sure enough—on the same floor with Santa (with camera man), eight live reindeer gave the children an additional treat. On the toy floor, below, the color scheme was more like a circus than Christmas, with red and yellow colored pillars and lamp shades, but something of a relief from the red and green and white seen other places. Topping the island fixtures were life-sized figures, animated to give the upper spaces much of the same activity as the floor, where cash spending customers were hanging across the counters An additional attraction for the children, on this floor, was a live baby elephant and the merry-go-round. Santa gave free lollypops but the merry-go-round and a prize package was 30c. A second ride without package was 5c The doll section, instead of red and yellow, had a moving parade of dolls in cellophane boxes against a dazzling pink castle background for a top fixture attraction. On a floor as large as this one, the directories were well worked out and easy to spot

Bill McDuffee, toy buyer, took a few moments off from a hectic Saturday morning to say that business was good Dolls were the leading category, with the new-born baby type well in the lead Help had been fair and there was a slight trend toward war toys in the late buying days. Prices might average a 10% increase by the end of the season. He saw few shortages

Hearn's

To the south on 14th Street, Hearn's had done away with their usual cavalcade window and substituted, instead an attractive setup for general toys, with The Old Women Who Lived in a Shoe background, and an animated puppet show window featuring "Foodini" the magician. This latter character was tied up with a store-wide promotion, the toy department part of which was labeled "Magic in Toys for Girls and Boys." The Oriental magic theme was carried out with a special show labeled Magic Wonderland" that was a series of well executed Aladdin type scenes There was even a full scale elephant with eyes rolling and trunk waving for peanuts. The price of admission was 10c, with the proceeds going to the March of Dimes Santa was in an igloo setting, as balloons and the smell of popcorn and peanuts threw a barrier up to keep him in his sphere away from the other strictly Oriental theme. This store has been in a process of rebuilding for several years and this season the toy department had been completely done over. The quiet tones of pastel tinted pillars with castle cutouts on the pillars and tops of wall fixtures, were really soothing

Toy buyer Victor Matchek reported business had been fine Western merchandise was selling well and puppets too, because the whole store theme was tied around the puppet performance of "Foodini." Games had been fair Trainer bikes were definitely a part of the toy picture There had been no help problem. Mr. Matchek had not noted any trend to war toys and did not anticipate any drastic shortages.

Kress, one of the leading chains in the country, shows how to display a huge number of playthings in one window.

Rises in prices might reach 5%.

Wanamaker's

Still further south Wanamaker's displayed a nice window with a living room setting showing children peeking down the stairs at the toys strewn on chairs and under the Christmas tree In the department the overhead ride continued the feature attraction. Blue, red and white pillars struck a national theme; but amusing cutouts of odd characters, on which various toy classifications were imprinted, kept the holiday spirit to the fore. All counters were piled high with holiday merchandise that bespoke complete stocks with no shortages in sight. There was an excellent layout of American Flyer trains As usual, the rotunda was filled with dolls in their doll house fixtures; and a new note was struck by crystal snowflakes hanging low over the heads of the customers. This gave a more intimate feeling by cutting down the coldness of the dome. Santa Claus was in a Story Book back drop with the happy camera man banging away furiously

Toy buyer Marc Rodman's department seemed to be enjoying good business with his office reporting buying pretty much across the board. War toys were not in evidence at the time of my visit, nor had there been many requests for them. Dolls were selling in all types; and Hopalong Cassidy was easily the winner as a character name Magnetraction had added zip to the train section. Hobby merchandise had shown a decided rise. Prices might reach a 3% increase over last year when the final accounting was chalked up. There seemed to be no danger of shortages that would upset the final figures Newspapers were still the best medium for telling the mothers and fathers about what Santa had in store with which to fill Christmas stockings. It had been noted that television was not the white haired child that it had been predicted last year.

Brooklyn

Abraham & Straus

Stores across the river in Brooklyn were active as beehives. Abraham & Straus was repeating the window with the puppet theatre that was reported on last year. It was still holding the crowds. Getting off the elevator, one noted that the arcade was ringing up many a dime from midget movies and candy bars under the watchful eyes of reindeer decorations, paused in suspended surveillance above the children's heads. Just as one entered the department proper, a well-stocked hobby section was catching the attention of young and old. Santa Claus was discovered at the end of a series of green lights, like the ones that aid travelers in the subway (Not a bad idea either, as Santa can often be as hard to find in the toy department as is the shuttle to Grand Central.) The old gentleman was in a circus tent setting, giving out an entertaining hook to the children while they had their pictures taken. If money was available there were gay balloons to add to the excitement of the occasion Also if money was still forthcoming, children could have their silhouettes drawn on a copper sheet, nicely mounted. The department seemed to have wider aisles, and the top fixture display not so high that it cut off the view across the floor through multicolored pillars with filled stocking decorations on their sides. There was a good Magne-Traction display in the train section

Puppet show was potent window attraction in Abraham & Straus store, Brooklyn

Paul Shapiro, one of the young and up-and-coming toy buyers, who held forth in Lit Brothers, Philadelphia, last year, beamed across his desk in this new assignment. He said November figures were ahead of last year and indications showed that December would keep his record intact. He had done his biggest single promotion with a Sayco doll, of the hard-bodied type, with Saran wig that could be washed and waved, at $5.00. The doll could be bought with or without a Rave waving kit, the latter being 79c. He had used six ads and disposed of around 12,000 units. There had not been noted any appreciable trend to war toys and he predicted no shortages, as he had ordered early and accepted shipments before things began to tighten up. The department had returned to personal service from self service, as Mr. Shapiro feels that a store with the quality standards of A. & S. should give service. He praised the personnel department in giving him adequate help to inaugurate this new policy Newspapers were his best advertising medium. Hobby merchandise was on the increase, and doll houses had been good with him

Namm's

Namm's utilized the corner window again this year with a very amusing animated display of Santa in a fantastic train that bobbed and wiggled its load of toys around to the delight of parents as well as their children. A new feature in this store was the "Ride 'Em Cowboy" horse, that, for the privelege of sitting on it for a few minutes of jogging, cost a dime. The idea has been used in boy's clothing departments for some time, and seems well suited to a toy department. It was doing very well. Santa was patiently listening to streams of children while he turned their faces to the camera. Decorations in the department were red tinsel on blue, with Santa heads decorating the pillars

William Vultaggio, toy buyer for this store, said business had been slow starting, but he felt certain he would show an increase of 15% by the end of the year There was general buying in all types of toys. He was doing a good business with Jerry Mahoney puppets. Dolls were good in almost any style. No trend in war toys seemed evident this year. There were few increases in prices, so there would not be an average of more than 5% over last year. Hobby merchandise was on the increase. Help was not too good. Shipments had been good, and few manufacturers had taken advantage of the war news to boost beyond the rise in raw products.

Loeser's

Again Loeser's had a very compelling window with life-sized animals playing musical instruments and a galaxy of dolls looking on. In the department toy buyer Harold Bladel had tied his wagon to the Hopalong Cassidy star and made it the focal point after the child had seen Santa Claus. In the television screen arrangement he has used for several years now, which parents and children can watch as other parents and children cross its face, he had a life-sized Hopalong and horse that moved realistically so that the illusion was created of being able to meet the white-haired gent in person. The decorations of the department were multimirrored tops to the pillars that threw gay reflections over the stock. Added to this were amusing cutouts in a welter of red and green tinsel. Prize packages were 29c and 50c

Mr. Bladel reported that business was excellent and the customers definitely buying across the board, especially dolls. He couldn't remember when there had been such a demand for all types of dolls. He was glad he had made Hopalong his pa'dner. No war toys had been asked for and few were being offered Help had been good. Prices might show an increase of 5% over last year.

Newark

Hahne's

Newark, like many other places, was digging itself out of the debris left by the late, unlamented storm that struck the last week in November. Many windows were still boarded up, and not a few that had weathered the blow were still wearing "wraps," in case of a return, when I bore down on the toy buyers thereabouts. Hahne's had much the same department as last year, with the merry-go-round for the children as one of the attractions. First ride with a prize package, 25c. Second ride, no package, 5c. Aisles are wide and the simple color decorations, of green pillars with alphabet blocks for identification on the red and white fixture below, did not carry the eye away from the piles of stock on the counters.

Toy buyer Young said there might be some shortages of wheel goods, but that was about all. Infant dolls were especially good here. His best selling number was Tiny Tears. One of his best single promotions had been a doll and play yard for $8.00, but he had found people would have bought the pieces separately, as it was good value no matter how presented. Plastic dishes had been good with him. He had noticed a demand for model soldiers, guns and airplanes. Hobby merchandise was showing gains. Music records were still good. Some television-sponsored items were good, but on the whole this field had not expanded as well as predicted last year. He expected business would be later this year, partly because of the war news and the storm but mainly because people were dropping back to their old habit of shopping in December and buying pretty much across the board He didn't think the war scare had affected toys nearly as much as housewares. He thought prices would be about 5% ahead of last year when the final figures were tallied, but explained that he had bought early to avoid too much of such a thing. Newspapers are still his best advertising medium and his best window had been of dolls, but the storm had blown it out The trainer bike had proved it was no flash in the pan.

Klein's

Klein's is a newcomer to Newark since last season, taking over the old Hearn location. One does not think of a woman's dress shop as carrying many toys, but their window attracted my attention. In it were three miniatures of the rides children might enjoy on the toy floor, which struck a new note in promotion. Dolls rode in the miniatures, with other items scattered around. The rides were a circular boat ride, whip and caterpillar. A clown distributed free balloons.

Toy buyer Robert Fielding said there might be some shortage in ball-bearing wheel goods Buying had been late, and he saw no trend toward war toys. He was doing well with a plastic-faced rag doll called Belinda. Baby dolls were also popular.

Kresge's

Kresge's had several interesting windows, and there seemed a trend here in Newark toward displays of children peeking in on Santa In this particular one, Santa was kneeling on the floor playing with the toys, heaving with laughter . . . a new kink on an old idea, as the laughter is wired to the street. The overhead ride and Santa were on a lower floor than the toy stock. Also the Santa luncheon was going strong. Children could have portrait silhouettes sketched on copper sheeting for 75c and $1.00 if they didn't choose the regulation photograph with Santa. This store had put in a Chuck Wagon, like the one at Bamberger's last year, where children refreshed themselves in a western atmosphere.

In the absense of toy buyer Nick Stefan . . . still on the ailing list. . . . A. Girardi said he felt they were well stocked with all categories and there would be no shortages. He had seen no reaction to the war news so far in requests for war toys. People were buying toys generally in all categories, though a little late in starting, which might be a combination of the storm and war news Western merchandise was still good. He had found newspapers the best medium for ads.

Bamberger's

There was an absence of any feature window series as in the past few years, but then the storm may have blown it out. Noted, instead, was an interesting living room layout with Santa at a baby grand piano playing tunes that came over the loudspeaker. On one side were groups of toys, and children peeping down the stairs listening to Santa. This year they had installed a train window

All kinds of dolls and accessories were featured in this window by Kresge's.

quite as magnificent as the ones in Lansburgh's, in Washington, and the Bon Marche, in Seattle. (Let's not have any hair-pulling as to which is the most elaborate—all three are quite outstanding in their particular areas.) In the department the most noticeable decorations were red and white pillars; and at one point, worth mention, an animated attraction of two monkeys skithering along a wire across the department. This seems new, at least to me. By a mechanical device that lifts and drops, the stuffed monkeys ride up and down the wire from one side to the other; something which immediately catches the eye of the small fry. Classifications were well marked on displays appropriately worked out for various age groups and both sexes. As last year, an added attraction was the Corral, Frontier Village with the pony ride. Pictures of the child on the poney were available at a cost of $1.00 Santa was on the fourth floor, complete with picture snapping. Here was really a new twist. The pictures were ready in seven minutes, and even duplicates could be had in another few minutes. This is good selling psychology as most mothers, if they like the first picture, will order duplicates immediately. There was a mailing service if the customer did not want to wait.

Assistant toy buyer George Abernathy, in the absence of toy buyer Le Kashman, reported that buying had started late but was picking up as the season advanced. Hopalong Cassidy was really riding the western range and puppets were good with them, especially Jerry Mahoney. Tiny Tears was the best name doll. Television wasn't pulling too well, and newspapers and the store catalogue were still their best advertising medium. If there were any shortages they would be in wheel goods. Prices generally might be 5% to 10% above last year. A few manufacturers had upped prices, but not many of the leading companies. There was a hint toward a trend for war toys. In this area they were already feeling the pinch for good help, especially material for good demonstrators, as war plants had been advertising for some time.

Philadelphia

Lit Brothers

Lit Brothers continued their feature of live monkeys in their Market Street window, but also had another well-dressed window with a nice selection of various types of toys. The department featured festive white pillars with red tops. Green cards, indicating the location of various classifications of toys, were laced to the white pillars with green cords. A new character had been introduced in a storewide promotion by the name of "Mr. Bingle." He was used in windows, on ads and showcards. He is a little roly poly snow man. The toy department featured him on the pillars as a soft stuffed toy to be purchased, and in a very active puppet theatre. Santa was posing with pictures, and the radio character of The Magic Lady could be visited in the Magic Lady Castle. They were selling dolls representing this character as in former years. The Supper Club radio program with The Magic Lady is one of their best advertising mediums. All of the help wore red smocks which added more gaiety to the department.

A wide selection of toys were shown in this window at Lit Brothers, Philadelphia, with dolls dominating the background. Another window not shown here, had five monkeys cavorting about

Toy buyer Dave Blomrock, who took over the Lit Brothers' post last spring when he left Gimbel's in New York, was enthusiastic about his first season on this job. He felt there was no reason to complain, in spite of war news and hurricanes. Prices might rise 3% to 4% by the end of the season. His biggest number had been the Louis Marx western ranch item. Infant dolls were also top sellers. He had not noted any trend to war toys yet. Trains were good, and the trainer dike was forging ahead Because of the late start in buying, and his anticipation ordering and accepting shipments early in the season, he did not feel there would be any drastic shortages. Newspapers and The Magic Lady were his best advertising mediums. Help had been about the same as in former years.

Gimbel's

Gimbel's windows featured Hopalong Cassidy merchandise. Also, they had an amusing animated window, wired with sound to the street. A life-sized Howdy Doody played the organ and equally amusing characters played other musical instruments. In the department the pillars were red with blue tops on which were scattered white stars. They still featured the Rich Uncle Shop with merchandise from $5.00 to $200.00. There was a very large display of Lionel's Magne-Traction. Santa Claus was in a homelike atmosphere, posing with the children as they passed his chair. Again, there was repeated the full scale elephant featured with the prize packages. Uncle Wip, a featured character on the Gimbel radio station, made periodic appearances at the other end of the room from Santa. To keep the children occupied while waiting for Santa or Uncle Wip's music and jokes, there was a moving parade of amusing tableaux along the side walls.

Toy buyer Urban reported that his department was holding its own, with prices probably as much as 3% to 5% higher than last year. If there were any shortages, it would be in wheel goods and heavy gauge steel toys, but he had bought early so most of his stock had been delivered early too. He felt that Hopalong Cassidy was undoubtedly the season's best "name" merchandise, and kept the western division among the top selling categories. Puppets had one of the best demonstrations noted anywhere along the line. His best advertising medium was newspapers, in spite of their well known Uncle Wip program. They had put out a catalogue for the second year and it was coming along nicely. He feels that television is something to be watched as a good advertising medium. His four leading categories were trains, wheel goods, dolls

Santa arriving at Snellenburg's on a flat car of the Reading Railroad

and bulk merchandise, in that order. Hobby merchandise . . . and they have a well laid out, well stocked and well staffed department . . . is definitely on the increase. Dolls were selling across the board. Help had been about as abundant as former years.

Strawbridge & Clothier

Strawbridge & Clothier featured the long corner window with a new series of moving tableaux, picturing the story of how Santa Claus was born and became the favorite Saint of children all over the world. Nicely done, and more or less a new theme for this sort of promotion. They also had a well dressed window with various toys on the Market Street front. In the department various colored pillars offered a new treatment. The top decorations were split bamboo screens on which were attached gay figures. A new note in toy department decorations. Fixtures with stock were green and white. Santa was at the end of the department with the inevitable camera man. An amusing tableau along the line of march to greet the old gentleman . . . and the camera man . . . kept the children interested.

Toy buyer John J. DiCarlo was tied up in a meeting, so assistant Ferguson reported there had been general buying in all categories. Dolls were selling in all types. The trainer bike was growing in popularity. He had not noted any trend to war toys. Magne-Traction had been a good booster for the train business. He did not see much danger of shortages, and prices might rise only about 5% for the season. Newspapers continued their best advertising medium.

Snellenburg's

Snellenburg's repeated their feature window of a full scale Santa and sleigh drawn by prancing reindeer, but also added a well arranged window with toy merchandise in which they invited one and all to the Toytown Carnival. In the department the decorations were red and white pillars with huge clown figures reaching out from them with cards indicating the type merchandise on that particular fixture. Very gay and simple to follow. As special attractions they had an Eskimo Village with live sled dogs . . . one with puppies . . . and a small deer called, of course, "Rudolph." There was a circular fire engine ride attracting a lot of attention, also. The Santa Luncheon, as in other years, was going strong on another floor, but always brings the children to the toy floor at the end of the repast. On the second floor was a Punch & Judy show and a clown magician. For the second year, and with great success, Santa was brought to the store on a flat car, via the Reading Railroad. He then paraded across Market Street to take up his post for the rest of the season in Snellenburg's toy department . . . accompanied by his never tiring camera man.

Toy buyer Joel Silverman reported that business was good right across the board, with dolls as a leading category. There might be an increase of prices on between 5% and 10%. He saw no trend to war toys yet. Magne-Traction had been good and the trainer bikes were selling well. Puppets were good with them, also. Hobby merchandise seemed on the increase. Rudolph the Red Nosed Reindeer had also been a good feature with them. Newspapers were still the best advertising medium, but their catalogue was becoming quite a factor in their annual promotions. They did not feature any combination items this year, as they found too many wanted to buy the items separately, and would buy, eventually, both; say a doll

Wanamaker's, in Philadelphia, attracted plenty of deserved attention with this window which depicted a scene from "The Night Before Christmas."

and a stroller, without it being featured as a specially priced combination

Wanamaker's

This store has always displayed some of the finest theme windows in the country. This season was no exception. The theme was "Christmas in Old Philadelphia" and struck a quaint note in costuming, but also a nostalgic feeling of when home and Christmas were peaceful, undisturbed by war rumors. These windows included the whole Market Street front of the store. In the department the overhead ride kept the children lined up for hours, waiting to climb aboard. Decorations were much the same as last year, with quaint figures, tied in to the theme windows, posing atop the island fixtures. "The Night Before Christmas" series of tableaux flanked the walk to see Santa who was around by the music department and gave a splendid opportunity to display children's records on a gay counter, which parents considered enroute. There was an excellent train layout, well landscaped, to attract to the train section.

Myron Menchel, who has taken over the buying of all toys for this store, reported they had enjoyed excellent results with television as an advertising medium. Even during the storm, merchandise that was featured sold for days afterwards. Their catalogue they find is pulling well also. Business in November and the first week of December was ahead of last year. While people seemed buying pretty much across the board, he thought trains and dolls would be the top categories. There would be some increase in prices but not more than 5% to 10%, generally, when the season was over.

A series of "Old Mother Goose" windows was the theme of Woodward & Lothrop in Washington, D. C. In all there were eight windows done in this story book fashion.

strikes. Santa was in his Ginger Bread House welcoming the small customers.

Toy buyer William Krapick said that while business had been slow starting the customers seemed to be buying pretty much across the board. Dolls and trains showed a slight lead. He didn't think prices would be more than 3% to 5% above last year. If there were any shortages they would be in wheel goods. No indication of war toys.

S. Kann Sons Company

Here was noted one of the best simple treatments of toys in a small window. Toys were scattered on the floor, but the center focal point consisted of two stacks of large blocks, turning. They were open on two sides, in which were perched dolls. These came into view, then disappeared as the stacks turned. The openings were staggered, so some merchandise was on view all of the time. The corner window with Santa appearing in the chimney for a talk wired to the street, was repeated again this year. This is one of the few stores where Santa still carries on without benefit of camera and flash guns.

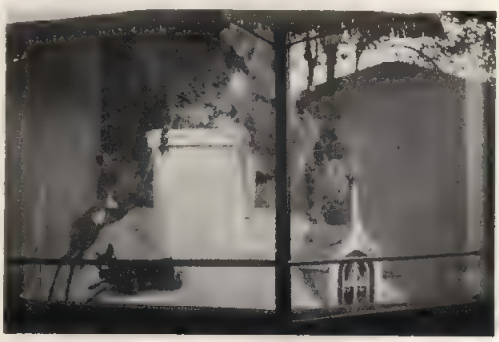
A. T. Watson, toy buyer, was away, but his merchandise manager, Shirley Kendrick, volunteered the opinion that business had been late in starting, but was picking up. They did not anticipate more than 3% to 4% rise in prices. Hopalong Cassidy was holding western business to the front. Dolls were the best category and selling in all types, which hadn't been noted for years. Magne-Traction was good for the train section. Newspapers were still the best advertising medium, but television was

(*Please turn to page* 125)

Washington

Woodward & Lothrop

While Woodward & Lothrop had a fine series of theme windows, they also had a "First Christmas" with soft toys, worth mentioning. The theme windows, a Mother Goose series, were well done as usual. There were eight windows in all, animated and wired to the street with sound. This is a basement toy department and has a very low ceiling, but it was nicely worked out with simulated boughs of green gauze, studded with Christmas tree ornaments. The back walls were mottled green and silver and the fixtures grey. As last year, good use had been made of tricycles on a revolving belt. It gave action to the floor, with lions and elephants riding the



Santa Claus periodically emerged from this white chimney in Kann's window.

Christmas Departments

(*Continued from page* 113)

coming along They had gotten out a catalogue for the first time and were very pleased with the pulling power of the eight pages of toys it carried. This year they had not featured any combination promotion, and did not think they had lost any business because of it. The help situation, which is always bad in Washington because of Government competition, was about 15% worse than last year. Mr Kendrick said that all manufacturers, particularly the leaders, had made prompt shipments

Lansburgh's

Of course I expected to see an exceptional train window here, as I had written up the plans for it in the December PLAYTHINGS. It was all I had anticipated and held crowds for hours on end Throughout the store they were featuring the 90th Anniversary of Lansburgh's, which of course was a part of the decor of the toy department However, they kept the self-service idea operating because of the help situation hereabouts This year they have arranged probably one of the best storage spaces for stock, right on the floor, seen from some time. Since the warehouse is six miles away and takes half a day to deliver stock, this is really something of an achievement

Al Lowen, toy buyer, said business was good and he expected there would be a shortage of wheel goods. Train business was very good, not only because of the window, of which they all were very proud, but just because trains had much to offer this year. Dolls were the best category, however, with undressed babies good. He did not think the trainer bike hurt chain drive trikes Hobby merchandise was on the increase and games were keeping pace. He did not think combination promotions were too good and had not included any in his plans this year. Newspapers were still his best advertising medium

Animated Walt Disney characters, including both Mickey and Donald and a jolly Santa Claus in the center, made this one of the standout windows of the season for Hecht's in Washington D. C.

Hecht's

Here were featured five animated windows of Walt Disney characters in a western setting. They were wired with sound to the street. In the department the pillars, fixtures and back walls stressed rose and delft blue as a color scheme Santa was posing for pictures with the children, on the same floor Self service was the order of this department. As usual they had a big doll department that was very active.

Assistant toy buyer Harold Kaufmann felt that business was quite normal, with buying pretty much across the board. Baby dolls had been most popular with them. Hopalong Cassidy was really riding the range, with Rudolph the Red Nosed Reindeer a runner-up in the "name" department. He had not noted any trend to war toys. The help problem, even for self service, was still a headache

Maybe it's something he has to get out of his system."

BLACK AND WHITE STERLING SILVER ELLENSBURG SADDLE

The Black and white Ellensburg Flower Hand Tooled Saddle, trimmed with 8 sterling silver engraved corner plates, with gold horse heads in center of plates, large silver engraved horn cap, engraved sterling silver conchas, engraved sterling silver bolt caps on stirrups, engraved silver name plate, nickel rigging dees and buckles

14 in. Ellensburg beef hide covered tree

14 in. undercut swell fork

3½ in cantle

4¼ in. horn cap

Rigging—Three quarter double

Skirts—Square with rounded corners, 29 in. long by 13½ in. wide.

Latigo 1¾ in wide, white latigo leather.

Girths—17 strand Mohair

Fenders 19½ in. long by 8½ in. wide.

Stirrup Leathers—3 in. wide to lace

Stirrups—Visalia, leather covered, outside flower hand tooled

Weight—50 lbs

No. 420 .. . . Each $520 00

BLACK RAVEN ELLENSBURG SADDLE

A beautiful black and white saddle on Ellensburg tree with under cut swell fork. White strings, lacing and white latigo tie straps. Full flower hand tooled. Long tapaderas.

Tree—14 in. or 15 in. seat, beef hide covered, undercut swell fork. New high raised narrow grip seat

Cantle—3½ in. high, beaded binding

Horn Cap—4¾ in.

Rigging—Three quarter double.

Skirts—27 in. long by 13½ in. wide. California style, sheep wool skin lined

Fenders—19½ in long by 8½ in. wide, one piece

Stirrup Leathers—3 in. wide to lace

Girths—15 strand mohair.

Rope Strap—¾ in wide, nickel buckle, flower hand tooled

Leather—Heavy oak tanned, black with waterproof finish

Stirrups—Large tapaderas with 2 in bottom, 3 in. neck

Latigo Tie Straps—1¾ in. wide by 6 ft. long white latigo leather 1¾ in double off billet

Leather Flank Girth 1¾ in. wide flower hand tooled with 1¾ in. back billets flower hand tooled

Finish—All black oak tanned skirting leather, flower hand tooled with waterproof finish Strings and latigoes all white latigo leather. Weight 45 lbs

No. 418 ..... Each $252 00

FORM FITTER SADDLE

Three Quarter double rig

Tree—Form Fitter, bull hide covered, 14 in. seat, 14 in. swell fork with undercut.

Cantle—4½ in.

Leather horn cap—⅝ in.

Rigging Rings—nickel composition, flat, 3½ in.

Stirrups—2 in. nickel bound.

Girth -15 strand mohair.

Tie Straps—1¾ in. latigo leather.

Skirts—27 in. long by 10½ in. wide, round corner, sheep wool lined.

Fenders—18½ in. long by 8 in. wide, heavy leather fenders and stirrup leathers in one piece.

Stirrup Leathers—3 in. heavy special California type rigging, lined with latigo leather, doubled and stitched, back rigging extends across tree back of cantle.

Seat—heavy built up leather with sheet steel support. Full flower design, hand tooled.

Nickel composition buckles, rigging rings and conches.

Leather foot and top piece on stirrup.

Spreader Strap 1 in.

Rope Strap—¾ in. leather

Weight 46 lbs.

No. 938 ..... Each $240.00

ROPING SADDLE

Three quarter double rig

Tree—Yalata roper, bull hide covered.

Horn—Pelican

Seat—14 in

Swell Fork—12 in

Cantle—3½ in., wide Cheyenne

Rings—3½ in. flat aluminum

Stirrups—3 in. bound, with leather foot and top piece

Girth—15 strand mohair; 1¼ in. leather flank girth.

Skirts—Round, lined with wool sheep skin, 12½ in. by 26 in.

Fenders—Bell shaped 9½ in. x 19 in. and stirrup leathers in one piece

Tie Straps—1¾ in. x 6 ft. yellow latigo.

Seat—Built up leather ground with sheet metal support, fancy flower design, hand tooled.

Long latigo leather laces, ⅞ in. buckle tie strap around bottom of fenders, ¾ in. buckle, leather rope strap on fork, nickel buckles, dees, rings and conchas.

No. 516 ..... Each $224.00

WHITE RIVER ROPING SADDLE

Double Rig

Tree—White River, beef hide lined.

Seat—14 in., seat jockey and cantle made in one piece.

Swell Fork—14 in

Cantle—2¾ in.

Horn Cap—2 in. leather.

Stirrups—2 in. bound

Rigging Dees—3 in. round.

Skirts—27½ in. long, 14 in. wide, wool skin lined with extra wear guard on bottom; flower design, hand tooled throughout.

Fenders 18 in. long, 8½ in. wide

Tie Strap—1½ in. latigo

Off Billets—1¾ in. wide.
Girth—One 13 strand white angora and one 15 strand white angora.

Stirrup Leathers—3 in.

Rope strap ¾ in., ring, dees and conchas nickel on composition, heavy built up leather seat with sheet metal supports, long latigo leather tie strings, heavy leather rigging securely fastened to tree.

Weight 45 lbs.

No. 4831 ..... Each $150.00

SPECIAL SADDLE

Three Quarter Double Rig

Tree—Ysleta roper, bull hide covered

Horn—Pelican

Seat—14 in., built up leather ground seat with sheet metal support.

Swell Fork—12 in.

Cantle—2½ in., wide Cheyenne

Rings—3½ in. flat aluminum.

Stirrups—2 in. bound, with leather foot and top pieces

Girth—15 strand mohair and 1¼ in. leather flank girth

Skirts—Round 26 in. long by 12½ in. wide lined with wool sheep skin.

Fenders—Bell shaped 19 in. long by 9¼ in. wide together with stirrup leather in one piece.

Tie Straps—1¾ in x 6 ft. yellow latigo
Long latigo laces, ⅞ in. buckle tie strap around bottom of fenders, ¾ in. buckle leather rope strap on fork, nickel buckles, dees, rings and conchas.

No. 5 ..... Each $174.00

YONAH BLACK SADDLE

¾ in. single rig

Tree canvas covered, 14 in seat, 14 in. swell fork; horn 2¾ in. high, 3in. cap, 3 in. cantle; ¾ in. single rig with 3 rings; skirts 12 in. x 24 in woolskin lined; stirrup leathers 2¼ in. half double to buckle, fenders 8 in x 15 in ; stirrups 1¾ in. wide, metal bound with leather tread and roller; 1¼ in latigo tie straps; 13 strand mohair girth with leather chafes, ¾ in rope strap, ½ in. fork string, black leather with embossed border design Wt. 31 lbs.

No. 8700 ..... Each $108.00

IMPERIAL WESTERN SADDLE

Full hand tooled basket design Will give excellent service, but not built for roping

Tree—14 in., seat 12 in. swell fork

Cantle—3 in. high, horn cap 2½ in

Seat and Jockey Solid one piece

Skirts—23½ in long by 10½ in. wide, wool sheep lined.

Fenders—16½ in. long by 8 in. wide

Stirrup Leathers—2½ in. wide to lace.

Billets—Two 1½ in. wide.

Rigging—Full double

Girths—One 13 strand mohair and 1½ in rear leather flank girth.

Stirrups—Galvanized bound, 2 in tread, 2½ in neck, leather top and bottoms

Latigo Tie Straps—1½ in. wide, 6 ft. long

Weight 29 lbs.

No. 31 . . . . . Each $108.00

IMPERIAL

Double Rig

Beautifully hand tooled shellacked basket.

Tree—Imperial, with 13 inch swell fork. Horn cap 1¾ inch leather covered

Seat—15 inch. Beaded cantle, 3 inches high

Fenders—8 inches wide, 15 inches long

Skirts—12 inches wide, 24 inches long. Sheep wool lining

Stirrups—Bent wood, leather top and bottom

Stirrup Leathers—2 inches wide Extra liner at stirrups

Girths—Heavy 15-strand cotton

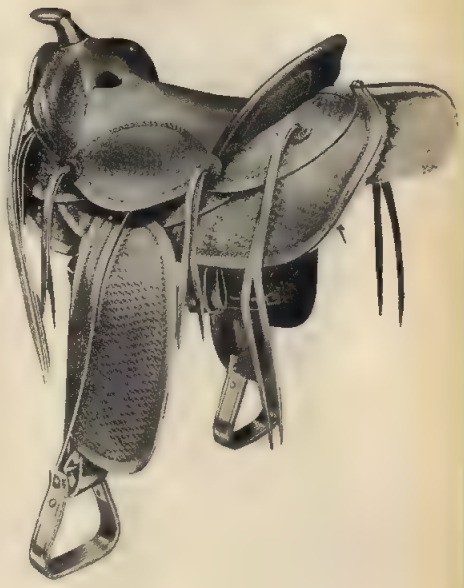
Riggings—1¼-inch yellow latigo tie straps Nickel-plated rigging rings, 2¼ inches

Weight—30 lbs.

No. 2148 ..... Each $60 00

STOCK SADDLE

Three Quarter Single Rig



Yonah steel fork tree, 15 in. seat, 13 in. bulge, 1¾ in horn cap, swell fork with welt; beaded front; 2¾ in. cantle, skirts 11¾ in. x 24¾ in. sheep wool lined Fenders 7½ in. x 15 in.; single ply stirrup leathers 2 in wide with extra liner around stirrups; tie straps 1½ in x 5 ft.; long latigo leathers; front and back rig shaped to fit tree; shawl strap ½ in. x 3½ ft. long on left side, rope strap ⅝ in. x 28 in.; riveted buckle, heavy web or cotton girths, ring on each end; stirrups 2 in. metal bound, fair skirting, full basket pattern hand stamped throughout

No. 2230 ... . . . Each $88.00

PEERLESS FARM RUSSETT SADDLE

Built for service on the farm or general riding. Not built for roping.

Tree—15 in. seat, 12 in. swell fork

Rigging—Double rig.

Cantle—3 in. high, horn cap 3 in.

Seat and Jockey—One piece solid

Skirts—23 in. long by 12 in. wide, sheep wool lined.

Fenders—15 in. long by 7½ in wide

Tie Latigoes—Four, 1¼ in. x 4½ ft.

Girths Two 4 in. wide, ring each end.

Stirrup Leathers—2 in. wide, to buckle.

Leather—Russett skirting, oiled and waterproof finish

Stirrups 3 in. wood with leather foot piece

Weight 25 lbs.

No. 21 ..... Each $90.00

WESTERN FARM OR ACADEMY SADDLE

Will give excellent service but not built for roping.

Tree—14 in. seat, 12 in. swell fork.

Cantle—3 in. high, horn cap 2½ in.

Seat and Jockey—Solid one piece.

Skirts—23½ in. long by 10½ in. wide, sheep wool lined.

Fenders—16½ in. long by 8 in. wide .

Stirrup Leathers—2½ in. wide to lace.

Billets—Two 1½ in. wide.

Rig—Full double.

Girths One 4 in. heavy web girth in front with 1¼ in rear leather flank girth.

Stirrups—2 in. tread, 2½ in. neck.

Latigo Ties—1½ in. latigo leather.

Weight—27 lbs.

Russett Finish.

No. 34 ..... Each $100.00

PONY SADDLE

Made of good russet saddle leather, rigging firmly attached. Three quarter single rig.

Tree—12 in. seat, 10 in. swell fork.

Cantle—2½ in high

Horn Cap—2¾ in.

Seat—Seat and Jockey in one piece.

Front—Beaded roll.

Skirts—19½ in. long x 9 in. wide, sheepskin lined.

Fenders—12½ in. long x 6½ in. wide.

Stirrup Leathers—1¾ in. buckle.

Tie Straps—Two 1 in. x 4½ ft. long.

Stirrups—3 in. Boys leather covered.

Girths—3 in. web ring on each end

Leather—Oak tanned skirting.

Finish—Border rolled.

Tie Strings—⅝ in. x 36 in.

Weight—17 lbs.

No. 401 ..... Each 60.00

GIRLS OR BOYS RUSSET SADDLE

A safe comfortable saddle. Made of heavy russet saddle leather. Three quarter double rig.

Tree—12 in. seat with 10 in. swell fork.

Skirts—20 in. by 9 in. California style sheep skin lined.

Fenders—12½ in. long by 6½ in. wide.

Stirrups—3 in. heavy wood with leather covers.

Rigging—Three quarters double rig.

Stirrup Leathers—1¼ in. wide heavy leather.

Girths—Two 3 in. wide heavy web with rings.

Tie Latigoes—Four 1 in. wide by 4½ ft. long.

Cantle—3½ in. high.

Seat and Jockey Solid in one piece.

Weight—19 lbs.

No. 403 ..... Each $62.00

MORGAN PONY SADDLE

Single Rig

Tree canvas covered, 12 in. seat; nickel horn; 2½ in. beaded cantle; skirts square with round corners, sheep wool lined; single rig with cotton web girth; stirrup leathers 1¾ in. to buckle; fenders 10 in.x8 in.; 1⅛ in. latigo tie straps; hooded wood stirrups 2¼ in. wide; all stock plain, spotted with round nickel spots. Weight 15 lbs.

No. 215R—Russett ..... Each $52.00

No. 215B—Black ..... Each 54.00

No. 215—Bridle to match ..... Each 9.50

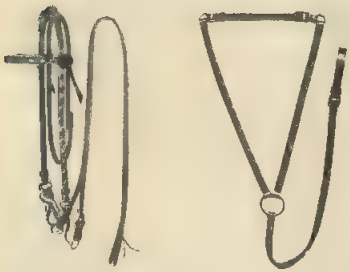
No. 215—Martingale to match ..... Each 7.50

GIRLS OR BOYS RODEO SADDLE

Cherry red, heavy saddle leather with nickel silver diamond shaped spots, nickel rings and buckles
Tree—12 in. seat, with 10 in swell fork
Skirts—20 in. by 9 in. California style sheepskin lined
Fenders—12½ in long by 6½ in. wide
Stirrups—3 in heavy wood with leather covers
Rigging—Three quarter double rig
Stirrup Leathers—1¾ in. wide heavy leather
Girths—Two 3 in wide, heavy web
Cantle 2½ in high.
Seat and Jockey—Solid one piece.
Weight—19 lbs

No. 500 ..... Each $74.00

CHERRY RED LEATHER SPOTTED BRIDLE AND MARTINGALE



⅝ in. double head stall, ⅝ in. front; ⅝ in. long quirt reins; cadmium plated bit. Weight 1¼ lbs.

No. 500-B ..... Each $7.00

Cherry red leather, nickel silver diamond shape spotted, nickel rings, dees and buckles Weight ½ lb

No. 500-M ..... Each $5.50

PONY OUTFIT

SADDDLE

Saddle mahogany color leather embossed spotted with nickel peanut spots. Imperial Tree 12 in. seat with 12 in. swell; steel horn, leather covered; one piece seat jockey and cantle; beaded seat and front; Skirts 18¾ in. x 9½ in. wool skin lined; stirrup leathers 1¾ in. to buckle; fenders 12¼ in. x 6¼ in.; double rig with cotton web girths; 1¾ in latigo tie straps; hooded wood stirrups 2½ in wide.

No. 2190—Complete with bridle and martingale ..... Each $91.00

No. 219—Saddle only—no spots ..... Each 62.00

BRIDLE

Mahogany color leather, creased edges, spotted with nickel peanut spots; ⅝ in. double cheek, center bar buckle at top; ⅝ in. sewed front, nickel shell rosettes; ½ in. bar buckle throat strap riveted, ⅝ in. sewed nose band, ½ in. bar buckle curb strap, nickel hardware, aluminum bit.

No. 2190B ..... Each 7.00

MARTINGALE

Mahogany colored leather, creased edges, spotted with nickel peanut spots; 1 in. breast strap riveted into 1¼ in. ring, 7 in. buckle and loop riveted at top; 1 in. neck strap; 1 in. belly strap sewed into double and stitched heart drop, conway buckle.

No. 2190M ..... Each $5.00

ENGLISH SADDLES

Cut back tree 19x11½ in. measuring from cantle to button, round cantle; hook bars for stirrup leathers; pig skin seat; skirts and jockeys pig impression; skirts 22 in. from center of seat, 13⅜ in. wide, dees on front and right side rear; 1¼ in. stirrup leather flesh side out, holes numbered; felt pad covered with calf skin, laced in; three billets on each side; latigo lined, 5 in. Fitzwilliam girth white linen webbing, non-rust stirrups

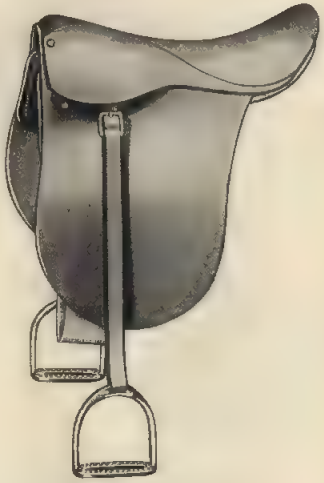
No. 23 . . . . . Each $176 00

No. 43 Straight tree 17 in x11½ in ; skirts 21x13 in. Two billets on each side 1½ in. stirrup leathers 4 in. heavy web girths—nickel plated stirrups.

No. 43 . . . . . Each $112 00

No. 47 . . . . . Each $112 00

No 47 same as No 43 with cut back tree



SCHOOL OR CAMP

Good strongly built saddle, suitable for camps and schools Eighteen inch tree over all measurements, round cantle, straight head; safety hook bars; grain leather seat, 3" dip; skirts and jockeys flexible leather, pig skin impression; skirts 20½" long x 12½" wide; two latigo leather lined billets on each side; pad grain leather, hair stuffed, sewed in; girth two buckles each end, 5" white linen web, stirrup leathers 1⅛", flesh side out, nickel plated stirrups. Weight 17 lbs.

No. 209 . . . . . Each $100.00

MAHOGANY COLOR SADDLE

NARROW GRIP—DEEP BROAD SEAT

Tree, 16½-inch seat; 17½-inch over all, measuring from center cantle to button at front; cut back and round cantle, narrow grip; spring safety stirrup leather bars; 3¼-inch dip; broad seat; flexible leather skirts and jockeys, pig skin impression; skirts 19½ inches long by 11½-inches wide; three billets on each side; ¾-inch dee on each side of front; two ¾-inch dees on each side of cantle; felt wad proof pad sewed in; calf skin covered; single leather ventilated girth; 1¼-inch stirrup leathers; flesh side out, holes numbered; non-rust stirrups Weight 21 lbs

No. 74 . . . . . Each $212.00

DUAL CROWD
INDEPENDENT PLUS AUTOMATIC
Digging Power Plus
NORTHWEST
A
B
C
THE CUSHION CLUTCH
THE cushion clutch makes ample power safe by reducing overloads on the drum-shaft and associated parts. It results in reduced frequency of clutch adjustment. It gives the operator ample time to throw out the clutch and prevent engine stalling when the dipper hits an immovable rock and lengthens hoist and drag rope life generally increasing all 'round economy.

SHOVELS • • CRANES • • DRAGLINES • • PULLSHOVELS • • SKIMMERS

86-3-45

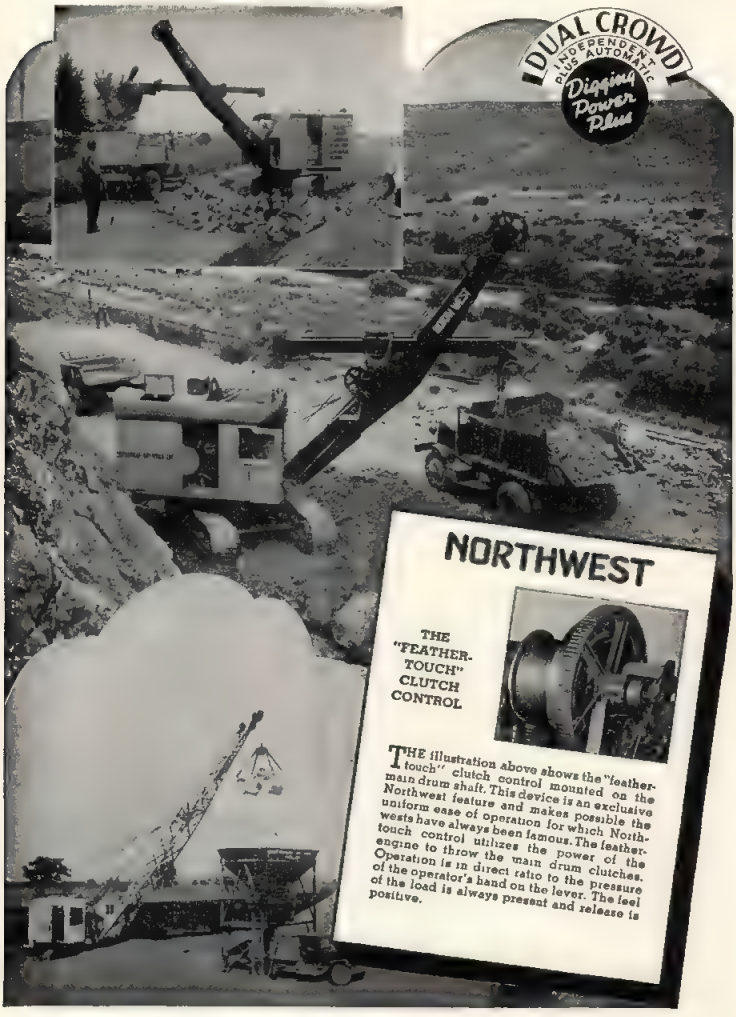
NORTHWEST

HELICAL GEAR DRIVE

THE power takeoff on all Northwests is through a flexible coupling and Helical Gears mounted on ball or roller bearing and running in oil in an oil tight case. It is expensive to build, but trouble-free for the owner. It is quiet. There is nothing to stretch, nothing to adjust. All high speed shafts are mounted on ball or roller bearings which assure the maximum delivery of power to machine operations.

SHOVELS • • CRANES • • DRAGLINES • • PULLSHOVELS • • SKIMMERS

86-4-45


DUAL CROWD
INDEPENDENT PLUS AUTOMATIC
Digging Power Plus
NORTHWEST
THE "FEATHER-TOUCH" CLUTCH CONTROL
THE illustration above shows the "feather-touch" clutch control mounted on the main drum shaft. This device is an exclusive Northwest feature and makes possible the uniform ease of operation for which Northwests have always been famous. The feather-touch control utilizes the power of the engine to throw the main drum clutches. Operation is in direct ratio to the pressure of the operator's hand on the lever. The feel of the load is always present and release is positive.

SHOVELS • • CRANES • • DRAGLINES • • PULLSHOVELS • • SKIMMERS

36-5-45

NORTHWEST

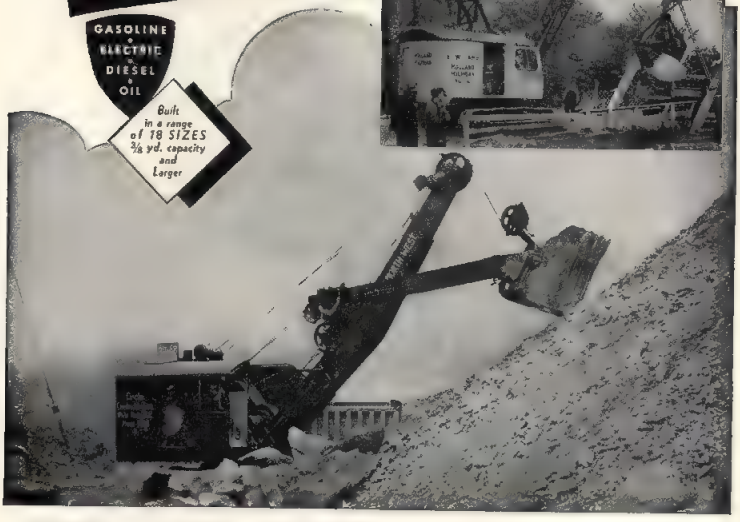
CRAWLER BASE

THE crawler base is a heavy alloy steel casting. Note the strength, the ample webbing—it's a solid foundation that will withstand the shocks of travel and digging loads.

Treads are cast alloy steel with self-cleaning tread and roller construction. Travel gears are fully enclosed and run in oil. The final drive to the crawlers is through a heavy duty alloy steel chain proved in years of service.

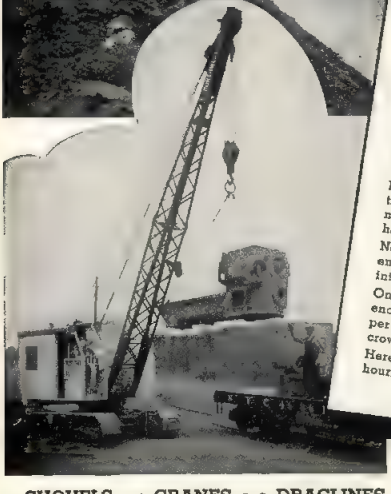
GASOLINE • ELECTRIC • DIESEL • OIL

Built in a range of 18 SIZES ⅜ yd. capacity and Larger



SHOVELS • • CRANES • • DRAGLINES • • PULLSHOVELS • • SKIMMERS

88-6-45



DUAL CROWD
INDEPENDENT PLUS AUTOMATIC
Digging Power Plus

NORTHWEST

THE DUAL INDEPENDENT CROWD

THE Northwest Dual Crowd gives you the simplest, most powerful crowd on the market today—a combination of the simple Northwest Independent Crowd plus an additional force for crowding that other shovels waste.

Every shovel on the market that dead-ends the hoist cable on the boom where it can do no work is wasting a force equal to one-half the pull at the dipper bail.

Northwest utilizes the force available at the end of the hoist cable and turns this force into extra power for digging.

On the Northwest the hoist cable is dead-ended at the upper or inner end of the dipper sticks where its pull becomes additional crowding power—automatically.

Here is a feature that means more yards per hour.

SHOVELS • • CRANES • • DRAGLINES • • PULLSHOVELS • • SKIMMERS

88-7-45

NORTHWEST

INDEPENDENT HIGH SPEED BOOM HOIST

THE Northwest Independent High Speed Boom Hoist with power up and power down is the last word in an answer to the need for raising or lowering the boom with or without a load independently of swing hoist or travel. Only one lever controls hoisting, lowering and braking. Engine throttle control permits slowing down the engine for short movements of the hook for steel setting and similar operations. A positive pawl and ratchet locking device permits holding the boom in any desired position at any time.

GASOLINE • ELECTRIC • DIESEL • OIL

Built in a range of 18 SIZES 3/8 yd capacity and Larger

SHOVELS • • CRANES • • DRAGLINES • • PULLSHOVELS • • SKIMMERS

86-8-45

NORTHWEST

RUBBER MOUNTED EQUIPMENT

WHEN you think of Truck Mounted Shovels, Cranes and Draglines, think of Northwest. Northwest Truck Cranes and Truck Shovels bring you the advantages of Northwest Crawler equipment—advantages that mean better truck crane and truck shovel performance.

In Northwest Truck mounted equipment you have Northwest simplicity, the "feather-touch" control, the Cushion Clutch, Northwest Uniform Pressure Swing Clutches, the Helical Gear Drive, ball or roller bearings on all high speed shafts, easy convertibility from Crane to Shovel and many other features made famous by Northwest in many years of operation.

Northwest Truck and Wagon Cranes are built in 10 and 20 ton crane capacities at 10 ft. radius with outriggers in place. Truck Shovels are built in ⅓ and ¾ cu. yd. capacities.

DUAL CROWD
INDEPENDENT PLUS AUTOMATIC
Digging Power Plus

SHOVELS • • CRANES • • DRAGLINES • • PULLSHOVELS • • SKIMMERS

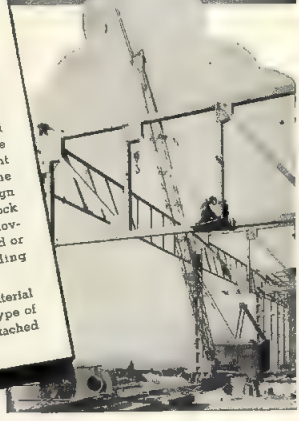
10-V-40

NORTHWEST

IN INDUSTRY

NORTHWEST Crawler Cranes have materially demonstrated their ability to cut costs around the industrial plant over older methods of material handling. The Northwest goes anywhere. It is not limited by overhead structures or tracks. Out of the way corners of the store yard and plant formerly regarded as waste space become usable. There is a choice of boom design and length that permits handling high stock piling with plenty of clearance while moving back and forth in the aisles. Second or third floor windows, overhead loading decks and doors are easily reached.

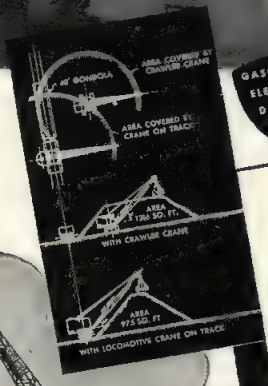
The Northwest unloads any type of material or conveyance and can handle any type of unloading equipment that can be attached



DUAL CROWD
INDEPENDENT PLUS AUTOMATIC
Digging Power Plus

SHOVELS • • CRANES • • DRAGLINES • • PULLSHOVELS • • SKIMMERS

86-10-45


AREA COVERED BY CRAWLER CRANE
AREA COVERED BY CRANE ON TRACK
AREA 1286 SQ. FT.
WITH CRAWLER CRANE
AREA 975 SQ. FT.
WITH LOCOMOTIVE CRANE ON TRACK

to a cable—clamshell, hookblock, magnet, tie grapple, timber tongs, pulp grapple and many others. With the crawler travel it can work alongside a whole train of material unloading as it goes loading to trucks or stock pile.

With crawler operation your operating range is doubled. The Northwest can reach a car or truck with a full 180° swing and load to twice the area that a locomotive crane of the same boom length can reach, materially increasing the use of storage space (See Diagram).

Northwests are built in a full range of sizes from 4 to 44 tons.

SHOVELS • • CRANES • • DRAGLINES • • PULLSHOVELS • • SKIMMERS

86-11-45

THE manufacture of Northwest Shovels, Cranes, Draglines and Pullshovels has been developed to a point unique in this class of equipment. The proper distribution of weight, the type and efficiency of power plants employed, the ease of operation, the elimination of waste in the transmission of power, the greater mobility, the simplicity and accessibility of machinery layout, are the combined results of years of specialized attention to the development of only this type of equipment.

It is interesting to note that many of the features, such as specially heat treated alloy steels and anti-friction bearings, lately adopted by other manufacturers have been used on Northwests since they were first built, and, have reached an unusual degree of perfection in Northwest Machines.

SHOVELS • • CRANES • • DRAGLINES • • PULLSHOVELS • • SKIMMERS

B6-12-45

Pride of Ownership
WHEELER 52'
SEDANS, EXPRESS CRUISERS, SPORT FISHERMAN, YACHTS—36', 41', 44', 48', 52', 55', 62'

See This Little Dream Boat at the Show

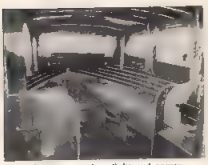
Space E7 ***Grand Central Palace, New York*** ***January 12-20***

20' x 6'6" x 2' Sportsman Cruiser. 25 H.P. Gray Sea Scout marine engine.

A.R.C. Sportsman

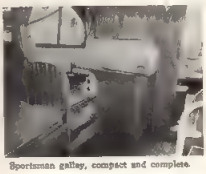
A 20-FT. cabin cruiser designed especially for American yachtsmen and fishermen. Exceptionally seaworthy and complete in accommodations, it is the lowest priced and most economical to operate inboard-powered sea-going small cruiser on the market today. The solid African mahogany planking is copper riveted, and the fine materials and workmanship used throughout are most unusual for any boat of this size.

CUSTOM QUALITY—LOW PRICES



Sportsman cabin, light and roomy

These British built standardized cruisers are delivered in America at prices far below any boats of comparable quality and workmanship, due to low British production costs as well as the extremely favorable exchange rate. They are powered with American Gray marine engines and delivered duty paid with choice of equipment, all ready to cruise.



Sportsman galley, compact and complete.

A. R. C. EVERYMAN CRUISER

A 28 foot Home Afloat

The 28' Everyman cruiser is a real all weather sea boat, built to give genuine comfort and safety in offshore cruising, or for living aboard. It has four roomy berths with foam rubber upholstery, unusually spacious galley, big flush deck and self bailing cockpit. Solid 1" mahogany planking, copper riveted over English oak frames, the construction is definitely more substantial than is customary for medium size cruisers. Powered with a 42 h.p. 4-cylinder Gray Lugger marine engine with 2:1 reduction gear under cockpit floor. Can also be delivered with a diesel engine or larger gasoline engine, and with a wide choice of special equipment, such as mast, sail plan, copper sheathing, etc.

20' Sportsman Cruiser $3,150. **28' Everyman Cruiser $8,565.**

Landed duty paid at any major Atlantic seaport

After the Motor Boat Show, both models will be on permanent display at United Boat Service Corporation, City Island, New York City. Demonstrations by appointment.

If desired, delivery can be taken in England using the boat for cruising in British or European waters then shipped to the U. S. for you by the builders without extra expense.

Write **Lt. Col. R. M. LANE, U. S. DISTRIBUTOR, 44 Whitehall Street, New York 4, N. Y.**
Phone: WHitehall 4-1984

A. R. C. MARINE CO., LTD., LITTLEHAMPTON, ENGLAND

Duchess Doll Presents...

Walt Disney's ALICE in Wonderland Doll

(BASED ON THE FORTHCOMING WALT DISNEY MOTION PICTURE)

All the excitement, human interest and heart warming appeal of Walt Disney's Alice is captured by . . . Duchess Doll with the same artistry that makes their high fashion Character Dolls the fastest selling line in America. . . . Duchess is proud that Walt Disney Productions has intrusted to them the creation of this important Character Doll which will serve a big need in the Popular Price Field. . . . You are cordially invited to inspect the high light of the year at the . . .

New York

TOY FAIR

HOTEL McALPIN Room 967

HOTEL NEW YORKER Room 518

PACKAGED IN WALT DISNEY DESIGNED BOXES

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Duchess Doll Corp.

24-27 Roosevelt Avenue, Jackson Heights, L. I., N. Y.

SALES REPRESENTATIVES

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J. C. Gerkins & Assoc.
Chamber of Commerce Bldg.
Atlanta, Georgia

NORTHEAST
Horner & Co.
Room 362
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New York City, N. Y.

NORTHWEST
W. Davidson & Assoc.
[illegible] 18th Avenue South
Seattle, Wash.

KANSAS, ARKANSAS & MISSOURI
Rivers & Co., P.O. Box [illegible]
[illegible], [illegible]

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Canadian
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MIDWEST
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Duchess Dolls *New 12½" Doll*

DRESSED IN 12 GLAMOURous STYLES

- ☆ **MOVING EYES**
- ☆ **MOVING HEAD**
- ☆ **MOVING ARMS**
- ☆ **MOVING LEGS**

12½" ALL PLASTIC DOLL BODY

STANDS & SITS in any Position

PACKAGED IN SALES-GETTING WINDOW BOXES

Our 12½" Body is available undressed; with or without wig. WRITE FOR FULL INFORMATION.

Duchess Doll Corp.

POPULAR PRICED DOLLS

- *Vinyl*
- *Latex*
- *Plastic*
- *Composition*

OUTSTANDING VALUES AS USUAL

ALLIED-GRAND DOLL MFG. CO., Inc.

72 NOSTRAND AVENUE — BROOKLYN 5, N. Y.

New York Showroom: Strauss & Richstone, 200 5th Avenue

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A TOYS

When in New York, make AY-WON your first stop for
TOYS • GAMES • DOLLS • NOVELTIES
A¹ Experience + A¹ Service = Your Entire Satisfaction

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SELL THE CAPS THE KIDS ASK FOR!

Kilgore Perforated Repeating Roll Caps, in the familiar red box with red, white and blue corner striping, have long been recognized as the finest toy paper caps available. Let this recognition work for you. Give the kids Kilgore caps . . . the caps they ask for by name. Kilgore can supply every type cap you need. Write for name of your nearest jobber.

Kilgore CAP FEATURES
- Contain lubricant for easier gun operation
- Caps centered
- Evenly spaced
- Uniform size
- Straight, clean-cut edges
- Tape uniform width

Single-shot Caps — 72 caps per box. For all single shot pistols and rifles.

8-shot Disc Cap for Kilgore's exclusive 8 shot models.

THE Kilgore MANUFACTURING CO.
WESTERVILLE, OHIO, U.S.A.

Rich Toys

DOLL HOUSES
PULL TOYS

Greatest line of Doll Houses ever produced; New Model Pull Toys, Gym Sets and other quick selling numbers.

RICH INDUSTRIES
CLINTON • IOWA
NEW YORK SALESROOM: ROOM 452, FIFTH AVENUE BUILDING

See Us At The Model Industry Association Trade Show In Chicago—February 4th to 9th—Visit Us at Booth 34!

We Proudly Present -- For the New Year --

"OLD 16" The Most Fabulous Road Racer in History--
The Winner of the Vanderbilt Cup!

The Newest Hudson Miniatures'

OLD TIMER

Below you see the ¾"scale model from the original "Old 16" now owned by PETER HELCK, the well-known artist. First to successfully challenge the road racing supremacy of the great European cars. Length when completed 10". See "Old 16" at our Booth (34) at the Trade Show. Dealers order it for your hobby-fete and collection!

NOW . . . Models of 3 Famous Racing Cars

1906 "OLD 16" LOCOMOBILE—$3.95 | 1914 STUTZ BEARCAT—$5.95 | 1913 MERCER RACEABOUT $5.95

WHAT a lineup! Fourteen famous Antique Autos now in the Hudson Miniatures line - every one a winner. Again we of Hudson Miniatures, Tony, Doris and all the gang, wish to thank you Mr. Dealer and Mr. Jobber, for the marvelous way you have handled the sales of OLD TIMERS. We wish to assure you that for the year of 1951, we will give you the service, advertising and promotions to the best of our ability. See you at the M. I. A. Trade Show and Convention.

All prices shown are retail

NEW MODELS AND NEW DEVELOPMENTS IN OUR LINE WE WANT YOU TO SEE—So Visit Us at Booth 34

Advertised in more than 50 National Magazines! Yes. More than 150,000,000 readers saw "OLD TIMERS" advertised in their favorite magazines during 1950! LIFE, Saturday Evening Post, Good Housekeeping, Today's Woman, True, Argosy, Holiday, Better Homes & Gardens, Boys' Life, Hobbies, Profitable Hobbies plus the usual Popular "mechanical" magazines and model magazines—all add up to the most widespread and all-inclusive campaign in the history of the hobby industry!

hm hudson miniatures OLD TIMERS

SCRANTON HOBBY CENTER—DEPT. 34, 315 Adams Ave., Scranton 10, Pa.

Elaine Bautz receiving prize from MC Tommy Bartlett

HOLLYWOOD DOLLS PRESENTED ON NETWORK BROADCAST

Talent show winner, Elaine Bautz was the happy recipient of Hollywood Collection Dolls presented by Emcee Tommy Bartlett at a recent coast-to-coast NBC "Welcome Travelers" broadcast. The alert Buffalo, N. Y. schoolgirl accompanied by her mother and grandmother, stopped in at the program at the Hotel Sherman in Chicago, dedicated to entertaining visitors in the city.

Hollywood Collection Dolls are one of the most treasured of the outstanding quality awards made on the Welcome Travelers program.

CARE AID URGED FOR KOREA

CARE is appealing for funds to send relief packages to the American war devasted Korea, whose people are in desperate need of food and clothing. Contributions in any amount sent to CARE, for Korea, 20 Broad St., New York 5, N. Y., or any local CARE office in this country, will be used to buy food and agency to deliver gift packages, in the name of the donors, to destitute Korean families chosen on the basis of greatest need. Six types of CARE packages are available. Food, underwear and socks or woolen sewing, at $10 each, knitting wool, $13 woolen blanket and cotton fabrics $5 each. Contributions less than the cost of a complete package will be pooled. All donors will receive a CARE receipt.

The CARE campaign was undertaken at the request of the Advisory Committee on Voluntary Foreign Aid of the U. S. Department of State and has been endorsed by President Truman. "This government," Truman declared in a statement, "is joining with other members of the United Nations to help Korean recovery but the greet need in a war-devasted country leaves much that our people, as individuals, can do. I strongly urge all Americans to contribute to the CARE for Korea Campaign . . . Every CARE package delivered to a family in Korea, in the name of American donors, is proof of democracy in action to help its fellow man."

PEGGY CLOTH-BOOKS FEATURE BUNNY AND LAMB EASTER ITEMS

A yellow bunny and a white lamb—what could be more fitting for Easter! And these cuddle and bath toys are among the first on the market, which may be used as a change for the baby! They are stuffed with that rare foam-rubber and the muslin is printed with guaranteed harmless and fast colors. The two animals are packed in an acetate re-use-box, one dozen boxes $7.20. They can also be ordered assorted and come then with six each of the bunny and lamb and six Hansel & Gretel dolls. A clever show-card, available free of charge, was devised to hold one box and the display is of such soft and pleasant colors as to adorn the most elegant shop. The items are manufactured by Peggy Cloth Books, Inc., 109 Worth St., New York 13.

Attractive utility items now ready for Easter distribution.

an Early Start in '51

PAVES THE WAY FOR

DEPENDABLE DELIVERIES AND GREATER SALES

SEE OUR LINE of DOLLS featuring

Quality at Promotional Prices

Including

- **COMPOSITION**
- **VINYL**
- **LATEX**
- **PLASTIC**

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ALVIN® STERLING

A grouping of original ALVIN designs made expressly for the discriminating hostess of today.

Each pattern is made in substantial service weights to ensure a lifetime of satisfaction . . . perfectly balanced for hand comfort in use . . . beautifully finished . . . and guaranteed to be of the finest manufacture. All knives have high quality mirror-finish stainless steel blades.

NATIONALLY ADVERTISED

*TRADE MARKS

A Chest of ALVIN STERLING is the Gift Supreme

ITS CHARM IS EVERLASTING

The Perfect Gift for . . . .

WEDDINGS
BIRTHDAYS
ANNIVERSARIES
GIFT AWARDS
SERVICE AWARDS
PRIZES

36 Pieces

SERVICE FOR SIX

Consists of

SIX each Knives, Forks
Teaspoons, Cream Soup
Spoons, Salad Forks
Butter Spreaders

24 Pieces

SERVICE FOR FOUR

Consists of

FOUR each Knives, Forks
Teaspoons, Cream Soup
Spoons, Salad Forks
Butter Spreaders

No. 385/1 CHEST — Showing 52-Piece Set

This Beautifully Designed Chest is sturdy and well-constructed of solid wood, in a rich mahogany finish. Lined with genuine PACIFIC Cloth which is guaranteed to prevent tarnish. Handy size and capacity 16 x 11½ x 3¾ inches, blocked to hold 120 pieces without crowding. Cover accommodates twelve knives.

48 Pieces

SERVICE FOR EIGHT

Consists of

EIGHT each Knives, Forks
Teaspoons, Cream Soup
Spoons, Salad Forks
Butter Spreaders

52 Pieces

SERVICE FOR EIGHT

Consists of

EIGHT each Knives, Forks
Teaspoons, Cream Soup
Spoons, Salad Forks
Butter Spreaders
Two Table or Serving
Spoons. One each Butter
Knife and Sugar Spoon

Please Specify Pattern Choice and Order Chest by Number

Please Specify Pattern Choice and Order Chest by Number

***Price Chest Only* . . .** RETAIL (No Tax) **$11.50**

Price Silver Only

CHATEAU ROSE, CHAPEL BELLS, SOUTHERN CHARM DELLA ROBBIA, CHASED ROMANTIQUE, ROMANTIQUE

	RETAIL (Without Tax)
24 PIECE SET, DESSERT SIZE, Knife and Fork	$ 83.33
DINNER SIZE, Knife and Fork	89.16
36 PIECE SET, DESSERT SIZE, Knife and Fork	125.00
DINNER SIZE, Knife and Fork	133.75
48 PIECE SET, DESSERT SIZE, Knife and Fork	166.66
DINNER SIZE, Knife and Fork	178.33
52 PIECE SET, DESSERT SIZE, Knife and Fork	186.54
DINNER SIZE, Knife and Fork	200.00

PRINCE EUGENE PATTERN

	RETAIL (Without Tax)
24 PIECE SET, DESSERT SIZE, Knife and Fork	$106.67
DINNER SIZE, Knife and Fork	112.50
36 PIECE SET, DESSERT SIZE, Knife and Fork	160.00
DINNER SIZE, Knife and Fork	168.72
48 PIECE SET, DESSERT SIZE, Knife and Fork	213.35
DINNER SIZE, Knife and Fork	225.00
52 PIECE SET, DESSERT SIZE, Knife and Fork	242.73
DINNER SIZE, Knife and Fork	254.37

*Trade Marks

DEALER NOTE: Requests for Discounts on Above Prices Should Be Made on Your Letterhead

AN ALVIN ORIGINAL DESIGN
late 17th and early 18th century French Renaissance. A fashion created for the lavish use of Kings LOUIS XIII and LOUIS XIV and in high favor today as an ultimate in decorative beauty.
Showing beautifully designed back of handles with name embossed in each
Prince Eugene*
SOLID STERLING SILVER
PRINCE EUGENE, for whom this exquisite pattern was named, was born in Paris in 1663, and spent much time in lovely Vienna, then the seat of continental culture. When Vienna was threatened by the Turks, it was PRINCE EUGENE of Savoy who was its defender—and his successes gained for him the everlasting gratitude of the people.
PRINCE EUGENE is a heavy weight, complete open-stock pattern furnished in beautiful soft Butler finish. All Blades are Mirror Finish, Stainless Steel. Illustrated . . . Luncheon Knife and Fork, Teaspoon and Salad Fork . . . actual size.
*Trade Marks

"PRINCE EUGENE" PATTERN • HEAVY WEIGHT THROUGHOUT

PLACE SETTINGS	RETAIL PRICES NOT INCLUDING TAX EACH
Luncheon Size	
5-Piece Place Setting	$33.54
6-Piece Place Setting	38.67
Dinner Size	
5-Piece Place Setting	23.00
6-Piece Place Setting	28.12

STAPLES	PER DOZEN	EACH
Tea Spoon	$42.50	$3.55
Luncheon or Dessert Knife*	80.00	6.60
Luncheon or Dessert Fork	72.50	6.05
Salad, Pastry or Fish Fork	55.00	4.59
Cream Soup Spoon	52.50	4.38
Dinner Knife*	65.00	5.42
Dinner Fork	85.00	7.08

PLACE-SETTING CONTENTS					
5-Piece—Knife, Fork, Tea Spoon, Salad Fork, Cream Soup Spoon					
6-Piece—Knife, Fork, Tea Spoon, Salad Fork, Cream Soup Spoon, Butter Spreader					

FANCY DOZENS	RETAIL PRICES NOT INCLUDING TAX PER DOZEN	EACH
Butter Spreader, Flat Handle	$37.50	$3.13
Butter Spreader, Hollow Handle*	50.00	4.17
Cocktail or Oyster Fork	35.00	2.92
Coffee Spoon (After Dinner)	20.00	1.67
Dessert or Oval Bowl Soup Spoon	57.50	4.80
Iced Beverage Spoon	52.50	4.38

CARVING SETS	EACH
Roast Carver & Fork Set*	$37.08
Roast Carver, Fork & Steel*	40.83
Steak Carver & Fork Set*	14.60

*Hollow Handle, Mirror Finish Stainless Steel Blades.

FANCY SINGLE PIECES	RETAIL PRICES NOT INCLUDING TAX EACH
Bonbon or Nut Spoon	$ 4.17
Butter Knife	5.82
Butter Pick or Olive Fork	3.75
Cheese Server*	4.17
Cold Meat or Salad Fork, small	9.17
Cream or Sauce Ladle	5.42
Gravy Ladle	8.75
Jelly Server	5.00
Lemon Fork	3.12
Pie Server*	7.29
Salad Fork, Serving	12.50
Salad Spoon, Serving	12.50
Sugar Spoon	5.42
Sugar Tongs	8.25
Table or Serving Spoon	9.17
Tomato Server, Flat Handle	11.25

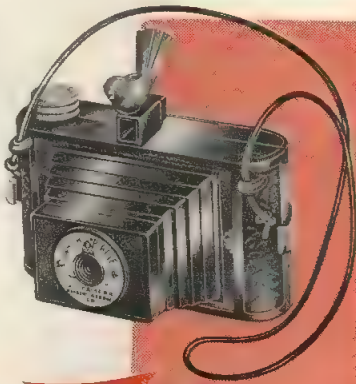
"Watch the Birdie" Camera

Tied-in and inspired by Metro-Goldwyn-Mayer's colossal movie hit, "Watch the Birdie," starring Red Skelton, Arlene Dahl and Ann Miller.

Newspapers, radio, television, theatres and billboards will soon be featuring advertising and displaying "Watch the Birdie"—the perfect camera for the millions of America's juvenile photographers.

"Watch the Birdie" is a beautiful, practical, candid type camera made by Herbert George Company with all the experience and know how gained from the manufacture of millions of cameras. So easy to operate, even a 5-year-old can snap sharp, clear pictures that can be enlarged up to 8x10. Practically unbreakable—made from Tennessee Eastman Butyrate. Packed in colorful carton with full instructions.

Display it! Feature it! Everyone from coast to coast will hear and know about "Watch the Birdie." Children everywhere will be saying "Watch the Birdie" before snapping countless pictures of their friends, parents, teachers, pets, etc.



Prepare now to tie in with MGM's "Watch the Birdie" movie when it comes to your town. Rush your order today.

IMMEDIATE DELIVERY!

New York Showroom
Room 420, 200 5th Ave.

$2.49 TAX INCLUDED

MANUFACTURED BY HERBERT GEORGE CO.
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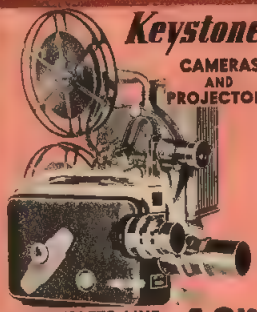

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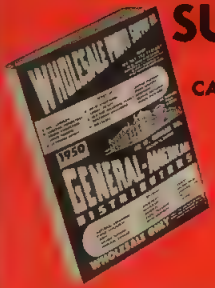

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The ARGOFLEX "75" complete with genuine leather carrying case and an easy to use flash unit. A complete 3-piece camera outfit Retail complete 21.47
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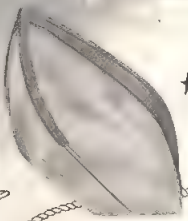
ALUMINUM BOATS



The "Cushion-Aire-Glide"
Up to 5 rigid, reinforcing "bilge keels" running three-fourths length of hull create a geyser of air and water between the keels on which boat rides. Speed is increased—virtually all pounding and water slap are eliminated. A revelation in smooth, quiet riding!

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18th ANNUAL CHICAGO NATIONAL BOAT SHOW
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NOW! BETTER THAN EVER!
THE MOST COMPLETE OUTBOARD FLEET IN AMERICA!

Again in 1951—more of everything boat buyers want! New "Cushion-Aire-Glide" design make Arkansas Travelers *quieter, stronger, more rigid, rugged and stable.* New construction features give them *more speed—more style—more safety—easier handling—more comfort—more capacity—more economical upkeep.*

This year the new Arkansas Travelers offer new *one-piece hulls* with *integral spray rails and keels—new wider hulls* for greater buoyancy, safer turning—*new non-skid inside finish*—plus many other practical innovations matched by no other line of outboard boats.

There are 10 different models of Arkansas Travelers to choose from—a "best buy" at prices to fit any budget. **The BEST For The Money!**

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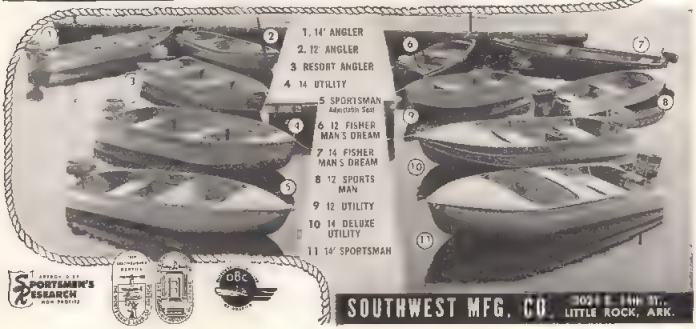
DEALERS: A few good territories still available. **Write today!**



SPORTSMEN'S RESEARCH

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the Most Spectacular Sales 'Hit' of the Year!

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Individually boxed 2 doz. to Master Carton

Complete with 16 page booklet—with lyrics of dozens of popular songs.

Arthur Godfrey says:

"For the younger kids and the lazier folks—get one of these ukulele players of *mine*. All you do is push buttons and it plays...such a lazy business."

Now...you'll sell more than ever!!

- Fits all standard ukuleles.
- Just snap it on, and play like a "pro".
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***Regular Retail* $7.38**

Now Yours To Sell For Only **$5.98**

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200 Fifth Avenue, New York 10, N. Y.

New Toys on Parade

Tap-A-Peg and Bang Balls

Hammer toys without bedlam in the home are appealing to parents but still provide fun, coordination exercise, and color training for the child. That's why Tap-A-Peg and Bang Balls, by THREE MOUNTAINEERS, INC., Toy Sales Division, Franconia, N. H. are welcome toy counter additions

By the simple use of soft rubber, these toys have eliminated a major adult objection to this important type of child play. Tap-A-Peg employs a soft rubber punched pad with holes slightly smaller than those in the two hardwood panels which enclose it. This means the eight solid, non-splitting pegs for the board are tapped quietly through the holes without touching wood. It also means the hammer can be effective although of light weight wood.

Tap-A-Peg is produced in two different models. No. 102 measures 5" x 5½" x 8"; comes individually packed in a printed box; and retails for $1.25. No. 103 is a deluxe model, pivot mounted between ends so that when pegs are tapped through, the board is reversed and pegs are instantly ready to be pounded again. There is also a locking ball pin mounted on the frame. In this deluxe model, the panel holding pegs has the same natural finish of the No. 102 and the frame, instead of the supporting legs for the 102, is finished in red. Size of the 103 is 7" x 4½" x 9" and the suggested retail $1.75.

Bang Balls contrives hammer fun of a different type, providing four glossy red sponge rubber balls which, when tapped through holes, disappear into a bright green box. Then they suddenly reappear in a corner hole; roll down an outside chute; and are ready once more to be pounded The materials used include hardwood, metal, and Masonite. The top of the box has a natural wood finish to contrast with the bright green and a lightweight hammer as well as the balls are included in the individually packed set which retails at $1.25. The overall dimensions of Bang Balls are 3¾" x 4¼" x 8¼".

Three Mountaineers' capacity is sold up most of the time and the firm therefore limits its distributors. Nevertheless, these quiet hammer toys are carried by many jobbers and chains throughout the country

Music Blocks

Since play blocks have been a long recognized aid to coordination and self-expression for children, they are a natural device for teaching music. CONSUMERS' SHOPPER, 47 Linderman Avenue, Kingston, New York, has therefore developed a set of twelve Music Blocks. These consist of whole and half blocks whose faces present alphabetical letters, music notes, sharps, flats, whole, and half tones.

With the aid of these blocks, it is possible to teach children (and even adults) some fundamentals of musical theory by actual, visual demonstration. With the blocks, they can even build or reproduce various melodies, at home or at school.

Music Blocks retail for $1.50 per set of twelve and each set includes full, simple, basic instructions. Consumers' Shopper states all orders sent in by mail will be filled and adds that testimonials of approval have been received from noted children's authors, a professor of dynamic psychology, a renowned composer and music educator, noted child psychologist, and others.

Arrambee Dolls with Dynel Wigs

With growth of interest in dolls whose hair can be washed, shampooed, combed, waved, and set by junior mothers, ARRAMBEE DOLL COMPANY, INC., 881-887 Broadway, New York 3, N. Y., come to the fore with wigs of Dynel, a product of Union Carbide and Carbon Corp., developed for Arrambee's use on doll wigs.

Nanette Dolls with Dynel wigs by A & B Wig Company, began arriving on the market late in 1950. Extremely handsome child counterparts even at first glance, closer examination of the wigs was eminently satisfactory. That the Dynel wigs "take" even high fashion hair styling and "hold" the setting was obvious. And the actual touch and feel of the wig strands is notably close to human hair, with good simulation of natural "hair texture." The dolls hair can be waved by her young owner with either sugar and water or with any home permanent set.

Nanette doll bodies are pleasing "little girl" sculpture, with a commendable job of plastic molding and a natural skin-tone coloring that is not exaggerated. Faces are pretty and eyes are well set, with long, luxurious lashes framing them. Fine styling, good quality fabrics, and first-class workmanship are characteristic of the Nanette costumes, with as much attention to finishing undergarments as to the placing, for example, of the ribbon bows on Nanette Tea Party's skirt, or the tacking of her basketry handbag to a flounce so as to lift the taffeta automatically into a billow.

Nanette Party Formal is another Dynel wigged Arrambee doll, her bouffant gown properly hung over a ruffled satin hooped slip. Sheer material fashions the gown, its hip-length overflounce, and shoulder-encircling, stand-up formal collar, as well as the frilly cuffs which replace formal gloves. A huge picture hat completes the costume

Both dolls are produced in 15", 18", and 23" sizes, with Nanette Tea Party retailing at $7.98 up and Nanette Party Formal at $8.95 up. Each is accompanied by a beauty set of six curlers, a comb, and an instruction sheet.

Lido Toy Opens New Showroom

Lido Toy Corp., 781 East 135th Street, New York 54, N. Y., manufacturers of a wide variety of popular priced cowboy and Indian sets, assorted vehicles, boxed sets horse and rider sets, etc., have announced the opening of their new showrooms at 200 Fifth Avenue, New York City, Room 206. This handsome and spacious showroom is a splendid example of modern interior display. The most modern lighting fixtures and showcases have been installed to show the extensive Lido line to excellent advantage. In addition, the company has recently enlarged its facilities in order to keep pace with the constantly growing demand for Lido products, and now occupy more than 30,000 square feet which are being devoted entirely to manufacturing purposes.

Present promotional plans include an extensive advertising campaign to the toy trade as well as the export market chain stores, and the consumer market. A cordial invitation is extended by Lido Toy Corp. to all friends and customers to visit them in their new conveniently located showroom at 200 Fifth Avenue, Room 206. Mr Arthur Gottlieb, formerly of L. Gottlieb & Son, is in charge of the newly opened showroom.

This view of the new Lido display emphasizes the modern lighting affect.

BMC MANUFACTURING CORP. ANNOUNCES NEW LINE

BMC Manufacturing Corporation of Binghamton, N. Y., leading manufacturers of juvenile wheeltoys, announces its entry into the popular priced wheel goods field with eight new pedal driven models in the new Special and Sportster Series.

The Special Series introduces an authentically designed American racer in the Roadster, and Dump Truck. All models feature smart streamlined '51 design, realistic three position gear shift, and extra wide bodies for ample seat room. Ball bearings are in wheels and rear axle hangers to insure free wheeling and long wear. Tires are ¾" solid rubber.

All eight models have such well known BMC quality construction features as heavy gauge steel body, all welded tubular steel chassis, auto spindle type axle for easy pivot point turning and steering, no-mar baked enamel finish for longer life, and no "dead center" drive. Pedals are adjustable for various ages. Improved undergear design gives more leg room, accommodates larger youngsters and increases power.

With the addition of these eight cars, the BMC line now includes 42 different models of autos, racers, tractors, attachments, and wagons.

wheel goods field. Painted a rich maroon, the car features a realistic hand brake, silver painted exhaust pipe, and extra roomy proportions for longer age range. Actual tests have shown that the racer's wind swept styling and large oversized rear wheels make it 20% faster than the conventional car. This new BMC wheeltoy is available with semi pneumatic tires and ball bearings or solid rubber tires and nylon bearings.

The BMC Sportster Series includes six distinctive styled models, Hook & Ladder, Police Car, Station Wagon, Fire Chief

Herbert Rubin

NEW YORK TOY PREPARES FOR TOY FAIR

Herbert Rubin, president of New York Toy and Game Manufacturing Company has stepped up production at his factory to keep up with the mounting orders for the 1951 line. Included in the New York Toy Line are many numbers for Spring selling, such as their famous line of Fishing Sets, Golf Sets and Baseball Sets. In addition to these old time favorites, there are the outstanding "Jr. Ace" lines of Tool Chests, Basketball Sets, and the amazing Tu-Way" Punching Bag Set, which is the only set of its kind that converts from floor type model to wall model. There is also a complete range of their ever popular Sewing Sets, Safety Dart Games, Fingerprint Sets, Magnetic Fishing Games, Educational Games, and numerous others.

The complete line of New York Toy & Game Manufacturing Co. is on permanent display in the new showroom, Room 348, 200 Fifth Avenue, where Mr. Rubin will be happy to welcome the many out-of-town buyers attending the New York Toy Fair.

Eagle Rubber's New Ball Deal Is Self-Merchandising Unit

More colorful than ever, Eagle's new self-merchandising Sponge Ball Assortment will be featured in The Eagle Rubber Company's spring line of Sponge Play Balls.

Listed as the No. 053 Assortment, this new unit combines the highlights of it's predecessor, the 050 Ball Deal, with many new improvements.

The new 053 Sponge Ball Assortment is contained in a bright red and yellow carton that effectively displays Eagle Red, White, and Blue Striped Return Balls, Mottled and Striped Play Balls, and Player Autographed Sponge Baseballs. Eye appeal plus a novel self-dispensing arrangement makes the most of impulse sales.

Retailers praise the convenience and attractiveness of Eagle's new package unit. The counter space required is only 1/3 square foot. The unit is easy to handle, order, and stock. Four different sizes and designs of Sponge Rubber Balls are displayed, with a price to suit every customer. For further convenience, Eagle includes a list of suggested retail prices with each assortment. This aids the retailer in filling in the pricing spaces provided on the display carton.

The 053 Assortment was developed exclusively by Eagle in cooperation with The Robert Gair Company of New York City, and will be featured in a full color motion picture, soon to be released, showing progressive merchandising ideas.

Bill Schaier

BILL SCHAIER SET FOR BUSY SEASON

Bill Schaier, well known salesman, who has just returned from a well-earned rest in the Florida sunshine, looks forward to a very busy time prior to and during the Toy Fair. Bill tells us that from February 10th to March 3rd, he will divide his time between the display rooms of Uneeda Doll Company, Room 511, and that of Lido Toy Corp., Room 206, at 200 Fifth Avenue, New York. During the Toy Fair he will greet visitors at the Lucky Toy Company exhibit in rooms 551-6, Hotel McAlpin. "Smiling Bill," as he is best known, states that his diversified lines include several new innovations for the 1951 season.

Buck Rogers 25th Century Communications Outfit By Remco Industries

Makers of the famous Walkie Talkie tab this item as another fast seller.

Remco Industries, leading manufacturer of sound powered phones and famous for their original Remco Electronic Walkie Talkies are especially proud of their newest achievement, "The Buck Rogers 25th Century Communications Outfit." Planned as Buck Rogers' very own communications system, the outfit comes equipped with two precision engineered Buck Rogers personalized phones in durable plastic cases, 25' of double electrical wire, a certificate qualifying the owner as a 25th Century Buck Rogers Communications operator, and a dial secret decoder to keep interplanetary messages top secret.

The name Buck Rogers is institutional since it has been nationally famous on television, radio, newspaper comic strips, and comic books for many years and is considered among the first of the science fiction characters.

Richly designed and attractively packaged by one of the country's leading packaging and merchandising consultants, Robert I. Goldberg, A.D.I., of Robert I. Goldberg Associates, 79 Madison Ave., New York City, the outfit requires no batteries. No plug-in is necessary and it is claimed to be a life-time toy, since there are no parts to wear out. The Manufacturer guarantees that it will operate effectively up to a half mile without loss of power. Voices are easily recognized and there is no distortion of sound. It has its own original features and when not in use as an appealing toy, has utility value since it can be operated indoors, outdoors, between garage and kitchen, in fact, almost anywhere.

Packed three dozen to a carton, the approximate weight is fifty pounds, f.o.b. Newark, N. J. The suggested retail price is $3.98. The Manufacturer is planning extensive nation-wide promotion and advises that dealer aids, mats and glossy prints are available.

Eastern Sales Representative is the well-known Frank Shain, of the Jo-Mar Sales Company, 315 East 196th Street, New York 58, N. Y. who introduced the original Remco Walkie Talkie to the trade.

2-gallon fuel tank, sturdy, adjustable mounting bracket, shock absorber; and weedless propeller. Parts are chemically treated for protection against rust and corrosion.

Other features are underwater exhaust; rubber-mounted swivel bracket for easy, vibrationless steering, and streamstyled fin-shaped underwater unit for high speeds with minimum water resistance.

The new Chris-Craft 10 h.p. outboard is easy to start, has a unique carburetion system allowing quick acceleration from slow idling speeds for fishing to extremely fast top speeds The 10 is designed for the ultimate in top, fast, thrilling speeds. Yet, when under heavy load it has the extra reserve power to drive a big family boat at a fast speed. Design of the motor makes it easy to service.

Chris-Craft Outboard Motors, Grand Rapids, Mich., is a division of the Chris-Craft Corporation, Algonac, Mich., builders of motor boats

EVINRUDE

The new Evinrude Big Twin has been hailed as "a new kind of outboard motor . . . a motor so powerful, yet so light and easily handled that it opens entirely new horizons for high-performance outboard motors."

Developing 25 h.p., Big Twin is described as being "big" in performance rather than size Actually it appears but little larger than the Evinrude 14 h.p. Fastwin The weight is only 85 pounds, thus the power-weight ratio is extremely favorable

Gearshift control, with neutral, forward and reverse, contributes small-motor manageability and complete maneuverability Spark and throttle are synchronized with Roto-Matic Speed Control located at end of the steering handle—the last word in operating ease and convenience. The Simplex Starter makes starting fast, simple and easy. The separate Cruis-a-Day Tank provides unusually long cruising range.

Evidence of the motor's extreme flexibility and wide power range is the fact that it will throttle smoothly down to normal trolling speed. In no sense a "hot rod," Big Twin's performance on a fast hull is excellent. Its 25 horsepower is developed at 4000 r.p.m. (O. B. C. certified with approved high-speed operating range up to 500 r.p.m.), but its most impressive performance characteristic is its exceptionally high torque at moderate throttle. Thus it handles big boats and heavy loads with ease, and its ability to "gun" a good sized runabout from standstill to top speed is amazing

The powerhead of the new model is twin-cylinder, alternate firing type. Displacement is 35.7 cubic inches. The cylinder block is an aluminum die casting with hard iron sleeves cast in place, and detachable die-cast aluminum cylinder heads. The crankshaft of nickel-molybdenum steel is counterbalanced with integrally forged balances. Contributing to exceptional smoothness of operation, the powerhead is flexibly mounted on special combination synthetic rubber and stainless steel spring mountings.

Nearly two years ago, when the first experimental models clearly indicated that new standards of performance could be achieved in a high powered twin-cylinder motor, the decision was made to engineer every detail for high production, to take advantage of all the manufacturing economies that had made low pricing possible on the company's smaller models

Thus the Big Twin is largely a die-cast motor . . . costly to tool for manufacture, but economical to produce in quantity And even more important, the motor is stronger, finer and far lighter

The price of the Big Twin is comparatively low. The Evinrude organization is confident that demand will easily absorb the full 1951 production. Inevitably the new motor will have a strong impact on the boat market. There will be greatly increased demand for the larger types of hulls, fast fishing boats, big family boats, runabouts and cruisers. All builders of outboard boats have been supplied with detailed information on the new model, with the suggestion that they step up production on their larger, abler hulls. Several builders are developing new models.

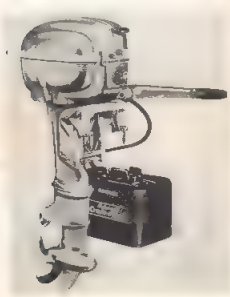
As large production as the raw material situation will permit is planned for all motors in Evinrude's 1951 line. Not until close to the end of the 1950 season was the factory able to keep up with orders on the new Fastwin and Fleetwin models.

The 14 h.p. Fastwin features Gearshift and Cruis-a-Day tank. The 7.5 h.p. Fleetwin is equipped with Duo-Clutch. The 3.3 h.p. Sportwin and the 1.5 h.p. Sportsman have the Fisherman Drive

Like the Big Twin, the 1951 production of Fastwin Fleetwin and Sportwin will appear in brand new "color dress" . . . a durable and highly attractive finish known as Evinrude Blue

The Lauson twin (above) is four-cycle, air-cooled. Compression ratio has been raised

Below: Evinrude's new 25 h.p. Big Twin with Cruis-a-Day tank. Right: The 3.3. h.p Sportwin



LAUSON

The Lauson Company, New Holstein, Wis., for 1951 features increased compression on its famous 4-cycle, air-cooled outboards. The tremendous success in the field of the 1950 Lauson Sport King should be even greater in '51, with the stepped up compression ratio on new models offering fishermen even smoother performance and faster power response. Re-manifolding plus re-carburetion has contributed to the extra performance of both the new 6 h.p. Twin and the 3 h.p. Single.

Another Lauson engineering "first" makes its debut with the production of the new Aqua-Matic transmission. Using its vast experience in the small industrial engine field, Lauson research engineering has developed an automotive transmission for actual forward, neutral, and reverse shifting. The simple shift lever can be flipped into reverse at any speed and, when set to neutral, there is no propeller creep. The new transmission will be available on the 6 h.p. outboard, to be called the Lauson Aqua-Matic Twin Sport King.

MERCURY

A great range of performance, a wide and complete selection of models . . . that is what Mercury Outboard Motors offer the outdoorsman, the family boater, the workboat owner in '51. Seven models, among them a large motor featuring speed, power, smoothness and ease of operation—a medium class model that has performance characteristics of large motors plus the handling convenience and operational ease of the smaller motors—and a super performing light twin that is fast, reliable and meets the most exacting requirements of the fisherman.

Especially newsworthy in the company's plans for '51, is the new Mercury Cruiser model for heavy family boats, cruisers, or workboats. Through a change in gearing, the driving energy of the Super Ten Hurricane powerhead has been harnessed and applied to weightier chores. It turns in a smart 30 m.p.h. on average family runabouts. As loads increase the loss of speed is negligible.

The Cruiser has been designed for smooth, quiet operation at all speeds, combined with the acceleration of a V-8, all-day trolling ability and solid, driving thrust under heavy load conditions. A new, twist grip synchronous spark and throttle control on the steering handle places Cruiser performance at the instant command of the operator. Mercury's spring-loaded automatic co-pilot, cushioned powerhead, and longer steering handle also help to make driving this outboard a pleasure.

All models have Full Jeweled Power, anti-friction bearing construction throughout, for increased speed, efficiency and trouble-free performance.

At the top of the line is the 25 h.p. Thunderbolt. This fast stock utility engine (officially clocked at 33.50 m.p.h. at Dallas) has speed, power, lugging ability and all-range performance. There is no vibration. It idles down to a consistent fishing troll, starts easily, and functions perfectly for hundreds of hours without adjustments, spark plug replacement, or professional attention.

A brace of Hurricanes, the 7½ h.p. Rocket and the Super Ten, will again be starred in the Mercury line-up. Like the Thunderbolt, they have scored spectacular wins and shattered records in endurance marathons and speed trials during the past season. Both, however, are strictly designed to serve fishing and general pleasure boating purposes.

The Super Ten Hurricane will be lighter and faster in 1951, as Mercury engineers continue to design for more performance and lighter, tougher construction.

The Rocket Hurricane is capable of flashing speed on light runabouts, slow trolling and possessed of all the power necessary to give a water skier a thrilling ride. Heavy duty construction is employed throughout and such mechanical features as the eight reed valve cage, improved porting and large carburetor aid in achieving superior light outboard performance.

The 7½ h.p. Rocket, for family and fishing use, is sized acceptably for most livery boat and light to medium runabout applications. It is equipped with forged steel connecting rods, waterproof magneto, Lu-Cast, one-piece gear housing, Vari-Timed Valves and Safety-Tilt Handle. Economically priced and economical to operate, the Rocket is an excellent all-purpose motor for the average boater.

Fisherman's choice is the lightweight twin cylinder Mercury Super Five. Though tailored to the specific requirements of the lake and river fisherman, this model is also fine for youngsters. Super Five, fishermen find, is light and handy on portage, easy to stow, gets them 'out there' in a hurry, (15 to 20 m.p.h. on light fishing boats) and trolls from dawn till dusk. Add such desirable features as full-reverse, Safety-Tilt angle adjustment for flick-of-the wrist transom-trimming, automatic co-pilot, multiple disc safety clutch, weedless propeller, low level water inlet and positive displacement pump, and the result is standout performance.

Also in the small motor class is the 3½ h.p. Comet. Special flywheel design employed on this engine tends to stabilize single cylinder power impulses, giving a smooth operation.

Mercury's new 10 h.p. Cruiser (above) is designed for heavier craft. The 25 h.p. Thunderbolt (below) has four cylinders in line.

SCOTT-ATWATER

Scott-Atwater has increased its line of Shift outboard motors for the second time in two years, and in 1951 offers five Shift models.

"Demand for the Shift—neutral, forward, reverse—in all horsepower sizes has been so great," states H. B. Atwater, Vice President, "that we added our new 1951 10 h.p. Shift model to the line last July, three months ahead of schedule." The Scott Atwater Shift 10 is an alternate firing twin with speeds of 1 to 25 m.p.h.

Other Shift models are the 4 h.p. 1-12 Shift single, the 5 h.p. 1-16 Shift twin, 7½ h.p. 1-20 Shift twin, and the 16 h.p. 1-30 Shift twin. A 3.6 h.p. single with conventional transmission is also made.

The new, versatile Scott-Atwater 10 h.p. 1-25 Shift twin appeals to a wide variety of outboard users—the fisherman who likes to get out on the lake fast and also be able to troll slowly for hours, the runabout owner who wants plenty of power to carry a full boatload of people, and the speed enthusiast who gets a kick out of high speed with a light, fast boat.

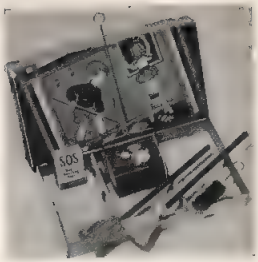
The 1-25 is a light weight, compact motor with a roller-bearing powerhead and a piston displacement of 14.19 cubic inches. Most famous feature of the 1-25, is, of course, the Shift itself. Other features of the 1-25, which are standard equipment on all five Shift motors, include Single Knob Control and Carburetor Drain.

The 1-30 Shift twin, a 16 h.p. motor that was new to the Scott-Atwater line last year, makes itself at home on generally the same type transom as the 1-25 fishing boat, runabout, fast hull. And with all its power, its heavy-weight boat performance is the talk of the waterways.

Separate Stowaway fuel tank on the 1-30 gives it more mileage, the Shift gives it real maneuverability, and its fourteen sets of ball and roller bearing mean a smoother running powerhead with years of care-free, service-free operation.

Outstanding features of the 1-30 include

Below: The Scott-Atwater 10 h.p. 1-25 Shift an alternate firing twin, with Stowaway tank.



NEW CLEANING SET BY E. & L. MFG. CO.

The E. & L. Manufacturing Co., 113 East 138 Street, Bronx, New York, announces that a new miniature cleaning set has been added to the Johnny and Mary Cleaning Set line. The set consists of a sturdy carpet sweeper with a lithographed metal top and a real brush that turns on the bottom, a broom of tampico fibre and a mop made of colored cotton yarn. Packed in an attractive three color box 11½ x 5½ x 1¼, the suggested retail price is 50c. Literature may be obtained by writing to the manufacturer

SELCO INTRODUCES NEW DART PISTOL

Selco Novelty Products, Inc., manufacturers of the Candy Mart Bank and Jocko, are now showing the new "Marksman," a 5 shot Automatic Dart Pistol with revolving "ammunition" chamber. "Marksman" is new in principle and new in design. It fires five accurate shots with one loading; is made of smart, sturdy red and black durable plastic

The overall length of "Marksman" is 8". It comes individually packed in an attractively colored box with five Plastic Rubber Suction Cup Darts, a Four-Color Bullseye Target and full simple instructions. Twelve boxes to a carton, weight 23 lbs. Julius Kushner and Milton Jacobs at Room 561, 200 Fifth Ave., N. Y., are Exclusive Distributors on the new toy.

NY-LINT APPOINTS HARCOURT COMPANY

The Ny Lint Tool & Mfg Co., manufacturers of metal mechanical toys and metal scale model toys, recently announced the appointment of the Harcourt Company, 121 North Marion Street, Oak Park, Ill., as their sales representatives for Illinois, Wisconsin, Minnesota, Missouri, Kentucky, Indiana, Ohio and Michigan. The Harcourt Company is headed by Fred Gade, who has been associated with the toy industry for many years and is assisted by Bill O'Brien and Ted Sexton. All members of the Harcourt Company are looking forward to greeting their friends at Ny-Lint's showroom during the Toy Fair, Room 616, Hotel New Yorker

Noma Expands Its Coast Operations

As part of a plan to expand operations in California, Noma Electric Corporation has acquired Ward Heater Company of Los Angeles, is was recently announced by Cecil M. Dunn, vice president and director of Noma The Ward Company, which produces floor furnaces and has annual sales in the neighborhood of $2,500,000, will be operated by Noma Electric as part of the Estate Stove Division

Mr. Dunn, head of the Estate Heatrola Division, will be president of the new company. R. O Montrief will continue to head manufacturing as a vice president of Ward Heater Company Russell Jarrett, Estate Western Division Manager, has been appointed Vice President of Ward Heater Company in charge of sales

Mr Dunn said that present plans call for expansion of the production facilities and services of the Ward Company and future plans call for the manufacture, at the Los Angeles plant, of some Estate Stove products which include kitchen ranges and space heaters

Mr. Dunn emphasized that, barring restrictions on production imposed by the Government, the company would continue to service Ward dealers exactly as in the past

Ward Heater Company was established some 41 years ago by Fred Ward, who originated the idea of the floor furnaces, principal product of the company. Ward products are distributed throughout California and the Southwest. New lines will shortly be added to the Ward production to stabilize year-round operations.

Noma Electric currently produces a line of dolls and Christmas tree lights in California and owns a tract of land on San Fernando Boulevard in Los Angeles, which it plans eventually to develop for manufacturing facilities

Early in December Noma acquired the Toledo Desk & Fixture Company of Maumee, Ohio, manufacturers of kitchen cabinets and sinks.

Plasco Ready with New Items For American Toy Fair Displays

Plasco brings out this newest version of its famous Alice in Wonderland Tea-Time plastic dishes in authentic fluted pattern. The lovely blue with white embossed figures of Alice in Wonderland characters resemble a famous world-renowned china

The assorted set comes boxed in a gay "Tea-Party Box" that serves as a self-displayer in the store. This item along with several other new playthings will be displayed by the Plastic Art Toy Corporation of America at the American Toy Fair, March 5-16, at the Hotel New Yorker, room 640, and 200 Fifth Avenue Building, room 965

This outstanding wheel goods display is just a small part of the attractively decorated showroom.

Eastern Toy & Novelty Complete Extensive Showroom Alterations

The Eastern Toy & Novelty, Inc., 137 141 Oxford St., Lynn, Mass., have just completed extensive alterations and changes in their showroom at the above address in order to take better care of their customers This organization was established in 1930 and has had a solid steady growth over the intervening years. The sales force has been greatly augmented during the past year and they expect to do a much larger volume of business in 1951 than heretofore. The firm is headed by George Gilbert, who has been in the toy trade since 1930, and H. B. Chandler, who has been in the toy field since 1923. Both these men are well liked in the trade and are energetic workers The concern specializes in games and wheel goods as is shown by the picture

NEW CLUB-RESTAURANT OPENED IN FIFTH AVENUE BUILDING

The 200 Fifth Avenue Club, Inc., a luxurious new restaurant, has opened in the Fifth Avenue Building, Broadway and Fifth Avenue at 23rd Street, as a luncheon club for tenants It will be especially useful for those who wish to entertain visiting buyers with exceptional food in a rich, quiet atmosphere.

Designed by E. Kenyon Davies, prominent interior decorator, the club consists of two rooms formerly occupied by the Fifth Avenue Restaurant, newly decorated at a cost of one-hundred thousand dollars. The New Orleans Room, with exciting murals by Carl Corbeil, has the festive air of the Mardi Gras. The Oak Room has the quiet dignity which is provided by old oak panel ling

George Dittmar, formerly with the Hotel Commodore, presides over both rooms Many tenants of the Fifth Avenue Building, famous as New York headquarters for Toys and Novelties and various other lines have become members

JOSEPH DOLINSKY NEW TOY BUYER AT E. W. EDWARDS & SON

Joseph Dolinsky has been appointed buyer of toys at E. W. Edwards & Son, Buffalo, N. Y. He also serves as buyer of sporting goods, housewares and luggage.

Levy and Fryer Announce Many New Items

The Levy and Fryer sales organization, in Room 203 of the Fifth Avenue Building, is planning to be a focal point of attention for toy buyers during the Toy Fair and throughout the year, due to the many brand new items which Morton Levy and Jerry Fryer have to show to their many customers and friends

Foremost among these new additions to Levy and Fryer's selection of popular toys is the F. C. Castelli Company's new Folding Table and Chair set. This new item will be of fabricated steel throughout, with the exception of a simulated leather seat and back cushions. Individual chairs will also be available, along with the table and chair set

Peter Puppet Playthings, with a successful 1950 behind them, is looking forward to its greatest year in 1951 With this thought as a basic aim, this large manufacturer of marionettes and puppets has developed several new items, all of which will be on display in Room 203. Perhaps the most significant of these new numbers are three brand new Walt Disney Characters, namely, "Alice in Wonderland," "The Mad Hatter" and "The March Hare." These new marionettes are being sold both individually and as a package set including stage, props, and all the material necessary to produce a real, full fledged marionette show These new numbers are being manufactured for release in conjunction with Walt Disney's latest cinematic effort, "Alice in Wonderland."

Another widely known character which Peter Puppet is adding to its line is "Flub-a-Dub," of Howdy Doody fame "Flub a-Dub" will be a $2.98 retailer, and introduces a sensational new innovation in the marionette field moving eyes and tongue. Incidentally, "Howdy Doody," which was a Christmas sell out last year, is selling very strongly in 1951 Another name which will be familiar to all of the younger television enthusiasts is that of "Little Mischief," the panda which Bob Emery features on his Small Fry Club program. Peter Puppet will depict "Little Mischief," the Panda, as a marionette The last, but certainly not the least of Peter Puppet's new innovations, will be the inclusion of completely new, professional type marionettes. These professional marionettes will be made with the airplane type control, which lends itself to more detailed and accurate control of the marionette. There will be six new numbers, all of which will retail at $5.00 each

Also on display in Room 203, and attracting much attention among buyers, is an item which will be of strong interest Camray Corporation, manufacturer of a comprehensive line of wooden toy chests, gliders, shoofflies and costumers, is introducing their new "Flippo," the convertible shoofly. On one side, Flippo is a shoofly Turn him completely over, and he becomes a comfortable non-tippable chair. Another new Camray item worthy of note is a new toy chest constructed of Paranha, a lustrous Brazilian hardwood. The Camray line was received enthusiastically by the trade in the early months of 1951, and all three plants are now running full-steam to insure prompt and speedy delivery.

Superb Toy Corporation has on display their entire new line of baby dolls, brides, formals and foam rubber stuffed dolls. Featured again are the ever-popular twin sets, plus several new promotional numbers, which are low priced leaders for any and all toy operations. A new and unusual doll is Superb's promotionally priced all latex, foam rubber stuffed "babe-in-blanket." Contrary to general market conditions, Superb is most pleased to notify its many friends that there are virtually no price increases on the line over last year's prices, and in several instances, prices are lower than last year's merchandise

That's the Levy and Fryer story for Toy Fair, 1951 A multitude of brand new items along with all the strong selling staples of long-time standing Morton Levy and Jerry Fryer, and their entire staff, are looking forward to showing all of this new merchandise to their customers and friends who will attend the Toy Fair.

LANGWOOD PRODUCTS EXHIBIT NEW LINE

Colman and Hirschmann, well-known manufacturers representatives, are enthusiastic about their 1951 lines and call particular attention to Langwood Products, Inc., originators of Jugglehead. This firm has perfected, after years of development, a new material for use in toys. A completely new line based on this revolutionary principle, will be shown for the first time anywhere at the Toy Show, Hotel McAlpin, Room 522. Jugglehead, available in limited quantities this year, will also be shown together with a complete line of Magnetic Games and Toys

Plastic Innovations, Inc., originators of Kelly and Clancy the Cop, Talking Horse Rings will have a complete line of Plastic Inflatables featuring several new and outstanding novelties, together with their full Summer line of America's most preferred line of Plastic Inflatables. These will be shown at the Toy Show, Hotel McAlpin, Room 520. Vibro Roll Products, Inc have gone all out this year to fulfill their slogan —"Let them enjoy their youth to the fullest." Their success in accomplishing this will be seen in their New Remote Control "GEE-I" Jeep and other excitingly new mechanical toys, which will be on display at the Toy Show, Hotel McAlpin, Room 518. Leo Colman and Dick Hirschmann will be at the Toy Show rooms of their manufacturers to greet their many friends. All the lines are on permanent display at 1186 Brodaway, N. Y. C

Joe Heller

SKIL-CRAFT CORPORATION MOVES TO NEW AND LARGER QUARTERS

Skil-Craft Corporation, manufacturers of the popular "Handy-Andy" Tool Sets and Work Benches, recently moved to new and larger quarters at 500-522 South Clinton Street, Chicago 7. This move was necessitated by the constantly increasing volume of business Skil-Craft has attracted during the past two years.

Skil-Craft's new 1951 line will be on display in room 741, Hotel New Yorker, during the Toy Fair Joe Heller, vice-president, states that the firm expects to maintain the same high quality, values and dependable service during the coming year with which their name has been identified in the past.

Product Engineering's new building in Portland, Ore.

Product Engineering Back in Full Production

Product Engineering Company, Portland, Oregon, manufacturers of the "Frontier Smoker" (the automatic cap pistol that smokes) is back in operation following a recent fire which left only the walls standing.

Although hampered by the fire, the Company used borrowed equipment and operated from various warehouses in the city in an attempt to keep up with demands for the popular gun.

Mr. Ralph McGilvray, President of Product Engineering Company, recently announced that the plant is now back in full scale production

EDUCATIONAL NORMA DOLLS FEATURED AT TOY FAIR

An unusual line of character dolls designed to please the collector as well as young America will be displayed at the Toy Fair this year at the Hotel McAlpin and 200 5th Ave., Room 209, in New York. Norma Originals, known as "the dolls with an educational story," will present the largest selection of character dolls they have ever displayed . . . each one an authentic model of a world-famous figure of fact or fiction The dolls themselves are unbreakable, with plastic bodies, detailed graceful hands, slim arms and legs, and lovely hand-painted faces. Each costume is authentic to the finest detail, and with each doll is enclosed an educational story of the doll printed on a small leaflet

said to be an exclusive Norma feature

The varied selection of 8" dolls includes a popular International Series of Peoples of the World such as Madame Pompadour of France, and Carmen of Spain, etc., in dashing cape models and sweeping skirts, full and finely-fashioned in the country's style. America is well represented, too, with a cowboy-cowgirl couple, Indian couple, Hiawatha & Minnehaha, and such famous characters as Priscilla & John Alden. The complete character series features dozens of delightful figures including Red Riding Hood, Joan of Arc, The Nun, The Bride, Captain Kidd and many others.

Among Norma's latest innovation is the Little Ballerina doll, a 5" coquette that has already warmed the hearts of many children. Also popular are the Norma Petites, 5" feminine beauties by now well known wherever dolls are shown. Norma Originals has just produced a new line of twelve 8" miniatures . . . the Coronette dolls . . . competitively priced dolls that are said to be selling fast—and they include The Bride, The Dutch Girl, Cinderella and The Southern Belle. Norma Originals will be on display in Room 1009, Hotel McAlpin, as well as the Toy Fair itself Sam Weisman, Eastern Sales Representative for Norma, announced a full display at the Norma Showroom at 200 Fifth Avenue, Room 209. At the Fair, in Room 1009, Hotel McAlpin, and at 200 Fifth Avenue, Norma extends a warm welcome to the entire trade.

Ring in the NEW YEAR with WALT DISNEY Stars

WALT DISNEY Character Merchandise reached a new high during the year just completed. This is especially interesting when we consider the long-time popularity of Disney Characters (Mickey Mouse is more than 23 years old). Some manufacturers have been using Mickey Mouse almost from the day of his birth and many have been featuring Mickey along with Donald Duck and other Walt Disney Hall of Fame Characters for ten years or more—licensees who in many cases have built their entire business around Disney Characters and regard their Disney licensing agreement as their greatest institutional asset

What is the most important factor in the success of the Disney merchandising operation for 1950? "Intensive development of lines produced by long-established licensees," is the first answer given by the Character Merchandising Division of Walt Disney Productions. Such licensees are recognized by important buyers as the official source from which to purchase Disney merchandise of the types they produce. So their operation has become one of keeping lines up to date with new versions of old favorites and additions of new favorites inspired by new Disney pictures such as Cinderella and Alice in Wonderland.

Equally significant is the large number of manufacturers who joined the Disney family of licensees in 1950. Just as in every other year new licensees made substantial contributions to the over-all success with their all-new creations. Such new blood is essential to the health of any business enterprise and credit for many of the most sensational Disney items in 1950 goes to such new-comers.

During the year of 1950 delightful new personalities from Walt Disney's motion picture Cinderella took their place with the old-time Disney favorites and it has been many years since any group of new characters have equalled the popularity of the Cinderella group. Cinderella and her companions from the enchanting story have firmly established themselves in the hearts of the children of America and they are certain to hold a prominent place there along with other immortal Disney creations.

News from the Disney studios for 1951? Walt Disney's Alice in Wonderland, of course. Those who have seen the picture—which has been in production for five years—predict it will surpass even Disney's own great triumphs of past years. Even at this early date this announcement can hardly be considered as news as the picture has already received a barrage of publicity. Alice and other Wonderland characters were introduced to more than 6,000,000 readers of Pictorial Review when Alice was featured in a Hallowe'en setting on October 29, followed by a Thanksgiving cover scene on November 19.

On Christmas Day at 4 p.m., 20,000,000 people enjoyed spending "One Hour in Wonderland" with Walt Disney via a spectacular television show which included previews of production highlights from Alice in Wonderland, and recreated some of the most memorable scenes from past Disney productions along with amusing sequences with Edgar Bergen and Charlie McCarthy. This program was sponsored by the Coca-Cola Company.

On January 22, 1951, Life Magazine will carry a full-page, four-color Disney advertisement announcing the coming of Alice in Wonderland. This is the beginning of a tremendous national advertising campaign.

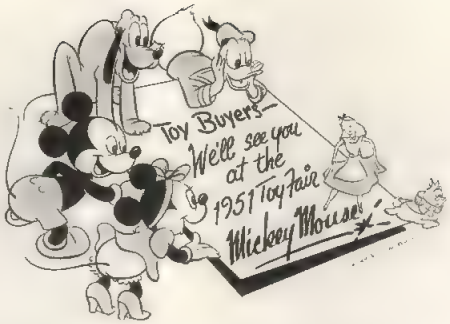
As important as Disney's forthcoming Alice in Wonderland is the development of a new series of short subjects featuring the immortal Mickey Mouse, Donald Duck and Pluto—a series of pictures that will delight their old-time admirers and make a host of up-and-coming new fans from pram to prom.

So Disney stars ring out the old year and ring in the new with justifiable pride and high hopes for 1951.

Behind

The Scenes

of



Walt Disney Character Merchandising

The Character Merchandising Division of Walt Disney Productions, Inc., enjoyed its biggest year in 1950 and is looking forward to even greater success in 1951. The universal screen appeal of the Disney Characters projects its influence to merchandise of many types. The wonderful showing in that field for 1950 was favorably effected by intensified efforts of old established licensees such as Louis Marx, Fisher-Price, Gund, Oak Rubber and many others, who, even after long years of experience, developed new and better ways to capitalize upon the popularity of the Disney Characters. In 1950 these licensees exercised greater ingenuity than ever before.

Another reason why 1950 was a banner year was the addition of new licensees who help to round out the activity and add substantial volume. New licensees included Great Lakes Press, Hassenfeld Parfait and Neevel Mfg. Co.

During 1950 the standard Disney characters, Mickey Mouse, Donald Duck, Pluto and their pals played an important part to increase sales, but something new and important was added with "Cinderella," which proved to be Disney's most popular merchandising inspiration since "Snow White and the Seven Dwarfs."

The popular Waltzing Cinderella by Irwin, the new Vinyl Mickey Mouse by Sun Rubber and many other new Disney items helped to meet the strong demand for new and attractive toys during the past year.

One of the scenes from Walt Disney's "Cinderella" make this window of the Hecht Co., Washington, D. C., a center of attraction for all passers-by. The fanciful characters are made by Stensgaard, Chicago, a Disney licensee.

The Character Merchandising Division of Walt Disney Productions successfully implemented licensees' activities with the most extensive campaign in its history to keep buyers, display and advertising people up-to-date on Disney merchandise. It is this kind of cooperation that keeps Disney merchandise in the public's eyes all year round.

Last but not least are the Disney pictures which in 1950 achieved a new high in popularity. Pictures that produced music played the world over, books read by everyone and, of course, the influence these productions have on merchandise of all varieties.

Stores throughout the country use window and counter displays, all influenced by Disney Productions and employing the manifold display materials made by Stensgaard, a Disney licensee. Department stores such as Hechts in Washington, D. C., have used scenes from Walt Disney's "Cinderella." Drug chains, toy shops, record and book stores constantly use Disney display material for attention-getting windows.

All in all, the success of 1950 was due to numerous measurable factors that in their entirety represent an all-time high in popularity for the Disney Characters and the merchandise associated with them.

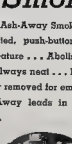
The big news for 1951 is, of course, Walt Disney's "Alice in Wonderland." From all indications it will exceed even "Cinderella" in popularity. Manufacturers have been busy for many months preparing collections of "Alice in Wonderland" merchandise, some of which will be feature attractions at the Toy Fair.

So the new year is off to a good start and one which is confidently expected to make new records all the way down the line for the Disney Character Merchandising Division.

"Ash-Away" Smokers

Each Ash-Away Smoker has the patented, push-button dispensing feature . . . Abolishes odors . . . Always neat . . . Receptacle easily removed for emptying . . . Ash-Away leads in style and value.

Ⓐ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Ⓒ

Ⓐ **"The Avon."** A favorite for club or hotel as well as the home. Durable Brown baked enamel. Smart Chromium trim. Height 22". Shp. wt. 5 lbs.
37A29—Retail $3.95.....EACH **$2.65**

Ⓑ **Table Model Ash-Away.** A steady profit builder. Enamel finished base with chromium-plated top. Height 2½", diameter 3". Ship wt. 1 lb.
57A1—Retail $2.00 .....EACH **$1.35**

As above: All Chrome finish.
57A3—Retail $2.50.....EACH **$1.65**

Ⓒ

Ⓒ **"The Colonial."** A design of instant appeal. Beautifully finished. Brown enamel, with Chrome-plated trim. Height 24½". Ship. wt. 7 lbs.
57A21—Retail $5.95.....EACH **$3.95**

Ⓓ

Ⓓ **"Challenger" Smoke Stand.** Smoker and ebarrette table all in one. Tray 14" in diameter. Durable, Brown baked enamel. Handle, top and base trim Chromium-plated. Ship wt. 11 lbs.
57A23—Retail $7.95.....EACH **$5.30**

Ⓔ

Ⓔ **"La Fayette" Smoke Stand.** Impressive as it is practical. Chromium-plated tray diameter 14". Black enamel only. Height 23". Ship wt. 15 lbs.
57A37—Retail $14.50.....EACH **$9.65**

As above: In Grey finish.
57A38.....EACH **$9.65**

HANDLED SMOKE STANDS

Modern design in gleaming metal finishes that enhance the furnishings of home or office. Standard, and accepted equipment for which there is a constant need. Ideal gift item for friends or business acquaintances.

Lustrous Bronze Smoker with Gold antelope handle. Always popular, ribbed column — finished to match. Removable, 6" Amber glass ash tray. Spun metal base, weighted to prevent tipping. **Overall height 26".** Packed one in carton. Ship. wt. 10 lbs.
57A65
EACH **$3.75**

All Chrome Smoker — triple plated to give lasting service. Pleasing design to blend with furnishings in business or home. Heavily weighted base. 8" Amber glass ash tray. **Overall height 27½".** Packed 1 in corrugated carton. Ship. wt. 13 lbs.
57A67
EACH **$5.95**

Lustrous Bronze Smoker with ornate gold color handle. Popular decorative design providing a most handsome gift item on any occasion. Heavily weighted base to prevent tipping. 8" Amber glass ash tray. **Overall height 27½".** Packed 1 in carton. Ship. wt. 13 lbs.
57A66
EACH **$4.95**

Novelty Ash Trays

COWBOY BOOT ASH TRAY

Made of metal in bronze finish. Spur and boot cast in a single piece. **Has appearance of tooled leather.** Height, 4½". Individually wrapped. Ship wt. 1 lb.
538A140 — **Each 90c.**
PER DOZEN **$10.20**

Always a Hit!

Novelty Ash Tray and Cigarette Dispenser. Wooden frame of plywood in natural finish. Opal glass ash tray. Cigarette dispenser in tank. It's comical —it's attractive—it's practical. **Display it on your counter and watch the fun and profitable sales.**
Height 8½". Individually boxed. Ship. wt. 2 lbs.
538A123—**Each 75c.**
PER DOZEN **$8.25**

KITCHEN RANGE ASH TRAY

Exact replica in miniature of the old-fashioned range. Fun to use! Made of metal in Bronze finish with removable lids. **Size: 3½x4x3".** Packed in Blue gift box. Ship. wt. 2 lbs
538A148—**Each $1.85**.....PER DOZEN **$18.95**

ORIGINAL "STINKY" ASH TRAY

Novelty gift ash tray that "gets the laughs." Stinky and his "throne" are of handcast metal. Bronze color body, white putty and teeth and bright red lips. Ashes fall through mouth to pot. Height 6". Pot 2¾" wide. Ind. boxed. Ship. wt. 2 lbs. **Retail $2.00.**
538A185 — **Per doz. $15.75.**
EACH **$1.35**

PRESENTING OUR NEW WASHABLE LINE

YOUR OWN EYES WILL CONVINCE YOU

IT IS WITHOUT EQUAL !

ATLANTA NOVELTY MFG. CORP.

HOTEL McALPIN ROOM 948

200 FIFTH AVE. ROOM 455

FACTORY: 443 BROADWAY

NEW YORK 13, N. Y.

When Visiting the

NEW YORK TOY FAIR

See America's Finest

WASHABLE TOYS

MIDGET ZOO

MIDGET PARADE

CIRCUS ZOO

PLAY PAL

FLO-TOY

CUDDLE-DOLL

ROLY-POLY

SOFT-DOLL

ATLANTA NOVELTY MFG. CORP.

HOTEL McALPIN, Room 948
200 FIFTH AVE., Room 455

Factory, 443 Broadway
New York 13, N. Y.

Automatic Pistols

High Standard—Sport-King

Hammerless

Stock No.	Caliber	Lgth. In. Barrel	Overall	Oz.	Each	Fact. List EACH
2K 5834	.22	4½	8½	34		$44.00
2K 5835	.22	6¾	10¾	36		44.00

High Standard—Combination—Sport-King

Hammerless—With Two Barrels

Fixed rear sight, ten shot magazine, new positive lock safety has both 4½ inch and 6¾ inch barrels, molded diamond checkered thumb rest grips. Slide notched for easy addition of adjustable target sight. Hammerless hooded breech, solid steel stop lug is part of frame.

Stock No.	Caliber	Barrels Lgth. In.	Oz.	Each	Fact. List EACH
2K 5836	.22	4½-6¾	41		$58.00

One in a carton.

High Standard—Field King

Ten shot magazine, new positive lock safety, new automatic slide lock, adjustable target rear sight, molded diamond checkered, thumb rest grips, hammerless, hooded breech. Solid steel stop lug is part of frame. Warranty with each pistol.

Stock No.	Caliber	Lgth. Barrel	Oz.	Each	Fact. List EACH
2K 5844	22LR	4½	38		$59.00
2K 5845	22LR	6¾	42		59.00

One in a box.

High Standard—Supermatic

Ten shot magazine, new positive lock safety, new automatic slide lock, adjustable target rear sight, elevated serrated rib between sights, front and back straps grooved for better gripping, ramp type front sight, adjustable for windage, molded diamond checkered thumb rest grips, adjustable weights 2 oz. and 3 oz., dovetail into barrel, hammerless, hooded breech. Solid steel stop lug is part of frame. Warranty with each pistol.

Stock No.	Caliber	Lgth. Barrel	Oz.	Each	Fact. List EACH
2K 5846	22LR	4½	38		$72.00
2K 5847	22LR	6¾	42		72.00

One in a box.

Ruger—.22 Caliber

The Ruger pistol has superb balance, a perfect grip even for the largest hand, handsome exterior lines, and solidity and smoothness of operation. No screws whatever are used in this firearm except for the attachment of the grip stocks. The working mechanism is assembled entirely on the interlocking principle.

Stock No.	Mfr's No.	Caliber	Length In. Lg. Rifle Barrel	O'all	Oz.	Each	Fact. List EACH
2K 5870	Ruger	22	4¾	8½	36		$37.50

Mark I—Ruger—.22 Caliber—Target

Expertly balanced. Comfortable grip. Smooth operating. Working mechanism assembled by interlocking principle. Screws used in attaching grip stock only. Has micro adjustable rear sight and perfect trigger pull. Heavily proportioned barrel of finest quality obtainable.

Stock No.	Mfr's. No.	Caliber	Lgth. In. Bbl.	Overall	Oz.	Each	Fact. List EACH
2K 5871	Mark I	.22	6¾	10¾	40		$57.50
2K 5872	Mark I	.22	8¾	9¾	39		57.50

One in a box.

Star—.22 Caliber

A matched team of .22 Star caliber pistols. Perfectly balanced and streamlined, compact and lightweight, the ideal hand gun for hunter, trapper and outdoorsman. For all around shooting. One second slide take down for cleaning from the breech. Thumb-rest grips. Checkered backstrap. Hand-honed trigger parts. Supplied with extra magazine and cleaning rod. Uses 22 long rifle ammunition.

Stock No.	Mfr's. No.	Caliber	Lgth. In. Bbl.	O'all	Oz.	Each	Fact. List EACH
2K 5879	F	22	4¼	7¼	23		$41.50
2K 5880	F	22	6	9	27		46.50

One in a box.

Astra—.25 Caliber

These modern design pocket automatics are made of the finest materials and have special design features not found in any other makes. Such as automatic and manual safties, loading indicators and an excellent feed system. Magazine capacity 6 cartridges.

Stock No.	Mfr's. No.	Caliber	Lgth. In. Bbl.	O'All	Fact. List EACH
2K 5877	200	.25	2⅜	43	$38.00

One in a box.

Automatic Pistols

Star—Model SI—.32 Caliber

Ideally suited for personal protection. Made of the finest alloy forged steel, with hand-fitted moving parts for dependability and long life. Fires from locked breech. Outside hammer, pointing thumb rest grip. three safties—thumb safety, half cock, disconnector safety which prevents firing unless slide is safely in position, optically efficient sights, button magazine release, beautifully finished

Stock No.	Mfr's No.	Caliber	Oz. Each	Fact. List EACH
2K 5882	SI	.32	20	$46.90

One in a box

Iver Johnson Revolvers

Sealed Eight Supershot

.22 Caliber on Heavy Frame

Has all the Iver Johnson features. Scored trigger prevents finger slip or creep. Independent cylinder stop prevents cylinder turning to an empty shell.

Extra heavy frame. High carbon alloy steel heat treated cylinder with counterbored chambers and extractor.

Specifications: Shoots eight .22 long rifle, long and short rim fire cartridges. Barrel, 6-in., equipped with $\frac{1}{8}$-in. Fairidge type rear sights, the rear Two-Way adjustable for elevation and windage. Blue finish with fired front sight. De Flex rib. One-piece Hi-hold walnut grip hand checkered. Length over all, 12¼ in.

Manufacturer's No. 833—

Stock No.	Caliber	Bbl. Lgth. In.	Finish	Oz.	Ea.	Fact. List EACH
2K 5851	22	6	Blued	34		$37.75

Iver Johnson Revolvers

I. J. Target—Sealed Eight

With 6-Inch Barrel

Of high grade construction with quick, smooth and positive action. Expertly designed for target practice, campers and trappers. Specifications: counterbored chambers. Blued finish 6-inch barrel. Scored trigger. One-piece hi-hold walnut grip, hand checkered. Shoots eight 22 long rifle, long and shorts rim fire cartridges.

Stock No.	Mfr's. No.	Caliber	Barrel Lgth. Approx. In.	Oz. Each	Fact. List EACH
2K 5856	68	.22	6	22	$22.45

One in a box

Starter Pistol

Has 8 shot magazine. Powder blast comes through top of pistol. Magazine enters front, comes out rear as shots are fired. Can not be converted to regular pistol. Uses No. 104 (official) blanks. Will not shoot standard .22 blanks. No permit required.

Stock No.	Mfr's. No.	Oz. Each	Fact. List EACH
2K 5895	103	16	$14.00

One in a carton

Starter Pistol Blanks

Extra loud blank cartridges for No. 103 Hy Score starter pistol.

Stock No.	Mfr's. No.	Caliber	Style	Fact. List PER THOUSAND
2K 4885	104	.22	Blank	$17.50

One hundred in a box

Shotguns, rifles and revolvers are guaranteed by the factories which make them to be free from imperfections in materials and workmanship.

You Get Greater Value In 1951 Barbours

YES, when you do your boating in a Barbour you realize very quickly the greater all-around value a Barbour gives its owner. When you compare its beauty, its style and durable construction and when you match its performance — speed, maneuverability and safety — with other boats, you know the Barbour is America's best buy in outboard boats.

There are eight exciting Barbour models for 1951 to thrill the most ardent and discriminating enthusiast. Each is designed and built to the same high standard of craftsmanship that has won so many laurels for Barbour on the race course from coast to coast. Whether your interest is fishing, cruising, general boating or racing, there is a 1951 Barbour to meet your requirements.

11½′ STANDARD SKIPPER

For motors up to 16 H.P. there is no boat of equal size or price which surpasses the 11½′ SKIPPER. It is just "tops" in its class. Has smooth sides, 51″ beam and three seats.

13½′ STANDARD SKIPPER

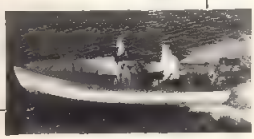
A superb performer for any size motor up to 22 H.P. Smooth side construction, 55″ beam. Has three seats with back rest for forward seat. It's the ideal family boat.

12′ STANDARD UTILITY

A rugged, lap-strake boat with 58″ beam and good seating capacity. Gives surprising performance, either rolling with 5 H.P. or speeding with 22 H.P. It's just the boat for all-around use.

14′ STANDARD UTILITY

For large or small motors for heavy or light loads, this spacious footer with 60″ beam and four seats is an outstanding performer. Rugged lap-strake to take the roughest usage.



Barbour Builds Better Boats

15′ STANDARD VACATIONER

Especially designed for motors developing 30 H.P. to 50 H.P. to give swift, smooth-planing performance on any water. Lap-strake construction for life-time use. 66″ beam. Plenty of room, plus four seats.

11½′ RACING ROCKET

If your forte is racing then you know all about the Barbour Rockets and their long string of victories. The 11½′ Rocket is for 7½ H.P. to 22 H.P. motors.

13½′ RACING ROCKET

A favorite with leading racing drivers. Unusually wide beam gives roominess and stability without sacrifice of speed. The perfect mate for the largest motor.

14′ ROCKET SENIOR

There's no finer stock racing boat than the Rocket Senior. Its outstanding performance in competition, marathon or closed course, makes it the preferred boat of top drivers. No motor is too powerful for this thoroughbred.

See the 1951 Barbours at your dealer's today or write now for literature.

BARBOUR BOATS, Inc., NEW BERN, NORTH CAROLINA

(T) 5.98 6 oz.

(V) 8.45

(W) 6.59

(X) 4.89

(Y) 4.69

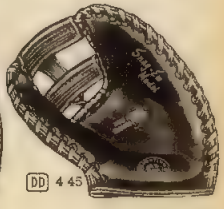
(Z) 3.95

(AA) 3.19

(U) 8.95 10 oz.

(BB) 8.45

(CC) 5.45



(DD) 4.45

Active Boy...Boxing and Baseball Gloves

(T)(U) JACK DEMPSEY GLOVES "Pro" designed for young boxers. Selected wine colored sheep-skin, goat hair padded. "Pro" design palm grips. Leather reinforced thumb seam, bound edges, drill lining. Set includes 4 gloves, and Dempsey boxing chart.

60 W 5401—4-oz. set for boys 4–7. Ship. wt. 1 lb. 12 oz..... 4.98

(T) 60 W 5402—8-oz. set for boys 5–10 Ship. wt. 2 lbs. 4 oz.. ..5.98

60 W 5403—8-oz. set for boys 9–12 Ship. wt. 2 lbs. 12 oz. 6.98

(U) 60 W 5404—10-oz. set for boys 14–20. Ship. wt. 3 lbs. 4 oz.8.95

(W) MARTY MARION "PLAYMAKER" 4-finger streamlined pro-model Select top grain tan cowhide, oiled. Full leather lined. Sewed felt pad. Adj ball trap, leather oced fingers. Welted seams Ship. wt. 1 lb. 8 oz.

60 W 4217 For Right-handers, wear on left hand..... 8.45

60 W 4218— For Southpaws, wear on right hand.....8.45

(W) JOHNNY HOPP "PLAYMAKER" Popular 4-finger pro-model. Select tan cowhide, oil treated. Felt pad. Full leather lined. Solid web Welted seams. Adj. ball trap. Leather laced fingers. Ship. wt. 1 lb. 8 oz.

60 T 4210 –For Right-handers, wear on left hand.....6.59

60 T 4211—For Southpaws wear on the right hand 6.59

(X) RALPH KINER FIELDERS' GLOVE. 4-finger pro-model. Select tan cowhide-oiled. Full leather lined Felt pad. Laced fingers. Solid web.

60 W 4215–For Right handers, wear on left hand. Wt. 1 lb. 8 oz.4.89

60 W 4218 – For Southpaws, wear right hand. Wt. 1 lb. 8 oz.4.89

(Y) WILSON "BALL HAWK" GLOVE. 3-Finger model. Designed for youngsters. Tan cowhide, oiled. 1-piece web. Felt pad. Part leather lined, closed heel. Wt. 1 lb 4 oz.

60 W 4200–For Right-handers, wear on left hand..... .. 4.69

60 W 4201—For Southpaws, wear on the right hand.....4.69

BEST QUALITY "BALL HAWK" GLOVE. 3-finger streamlined model. Select tan cowhide. Full leather lined. Sewed felt pad. Laced heel.

60WP4238–For Right-handers, wear on left hand. *Postpaid*..9.45

60 WP 4239–For Southpaws, wear on right hand. *Postpaid*.9.45

(Z) JOE GORDON GLOVE. Select tan cowhide, oiled, Full leather lined. Solid web, felt pad Welted seams, laced fingers. Booklet "How to Play 2nd Base" incl. Wt. 1 lb. 8 oz.

60 W 4205–For Right-handers, wear on left hand.....3.95

60 W 4206—For Southpaws, wear on the right hand.....3.95

(AA) JOE MEDWICK GLOVE. Ideal gift for boys. Full size youths' fielders model. Tan cowhide, oiled. Leather lined palm, fingers. Shaped felt pad. Plastic adj. web laces, laced heel. Ship. wt. 1 lb. 3 oz.

60 T 4202—For Right-handers, wear on left hand.....3.19

60 T 4203 –For Southpaws, wear on the right hand.. 3.19

(BB) NIPPY JONES MINOR LEAGUE "CLAW" MITT. Trapper design—a favorite with major league players. Select tan cowhide, oil treated. Sewed felt pad with reinforced finger and thumb sections. Adj. leather small finger loop. Mitt breaks as much on little finger-side as on the thumb side. Leather lined palm. Adj. laced wrist, plastic bound edges. For either baseball or softball. *Postpaid.*

60WP4248 For Right-handers, wear on left hand.....8.45

60 WP 4249 —For Southpaws, wear on the right hand.....8.45

(CC) JR. "CLAW" TRAPPER MITT. Expertly designed for younger players. Select tan cowh.de, oiled Cemented pad, leather lined palm. Adj. wrist, crotch laces. Ideal for baseball or softball.

60 W 4262 –For Right-handers, wear on left hand. Wt. 1 lb. 8 oz.5.45

60 W 4263 –For Southpaws, wear right hand. Wt. 1 lb. 8 oz. 5.45

(DD) "SNAG-EM" FIRST BASE MITT. Popular full-size model. Oiled select tan cowhide 2-tunnel adj bal trap. Adj. finger loop, wrist Felt pad. Leather lined palm For baseball or softball. Wt. 1 lb. 6 oz.

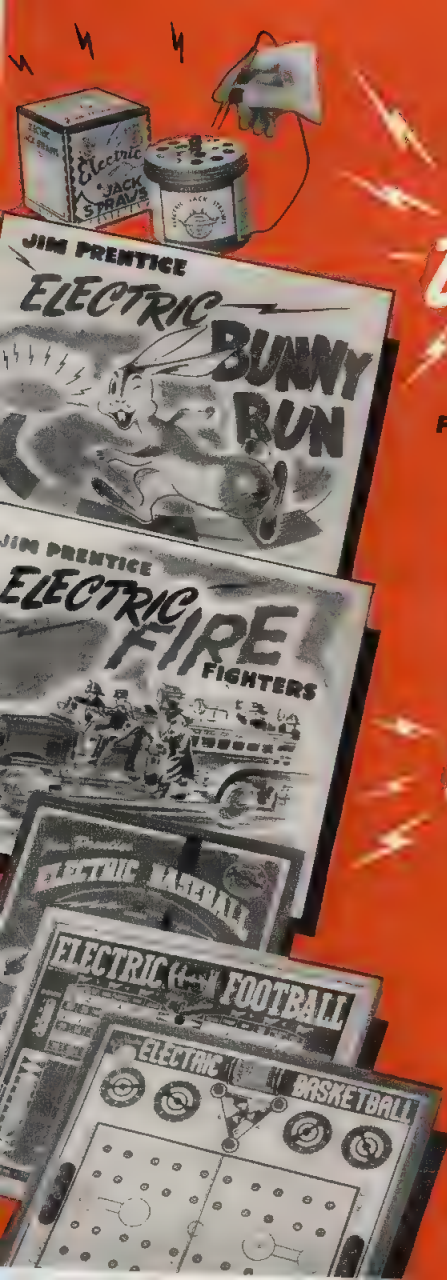
60 W 4258–For Right-handers, wear on left hand..... 4.45

60 W 4259—For Southpaws, wear on the right hand.... 4.45

(FF) LOW-PRICED BASEBALL SHOES. Black top-grained elk leather uppers. Oak leather taps, heels. Sprint model—flexible soles. Rust-proof spikes. *State whole or half size* 6 to 12. Order regular shoe size for A, B width For C, D, E, width order half size larger.

60 W 4889—Ship. wt. 3 lbs. 4 oz.5 65

(FF) 5.65



JIM PRENTICE

New

ELECTRIC

GAMES

FOR YOUNGER CHILDREN

ELECTRIC **BUNNY RUN**
ELECTRIC **FIRE FIGHTERS**
ELECTRIC **JACK STRAWS**
ELECTRIC **TV QUIZ**

New and Improved

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World's Largest Electric Game Manufacturer

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You can't lose with Berry Pink the Marble King!

When it comes to marbles, kids know a winner when they see one. That's why marbles by the Marble King — made in beautiful colors chosen in sampling tests by thousands of children — are the world's largest sellers.

Berry Pink and Jack Dempsey— a couple of "champs" with the marbles of champions

Not only in product, but in packaging, promotion, and publicity, the Marble King — Berry Pink Industries, Inc. — leads the way. And all our merchandising ideas, already moving millions of bags of marbles per year over dealers' counters, are designed to do just one thing — to help **you** sell more marbles! Remember, to sell **more**, sell the marbles that sell **most** — marbles by the Marble King!

Berry Pink Industries, Inc.

Empire State Building, 350 Fifth Avenue, New York 1, N. Y. • PE 6-5332

Low-priced Guns, Rifles, Daisy Outfits

J MOSSBERG REPEATER SHOTGUNS. Bolt action repeaters. Factory-fitted precision choke tubes interchange quickly in the field. Available in 20 and .410 gauge. Three shot capacity. Proof-tested barrel. Molded trigger guard, thumb safety. Monte Carlo walnut finished pistol grip stock, modern trap style forearm. Length overall 44½ in. Act. wt. 5½ lbs.

20-GAUGE REPEATER. 3 guns in one—full modified, and improved cylinder choke tubes. Detachable 2 shot clip magazine. 25-in. barrel takes 2¾-in shells. *Postpaid.*

60 WN 185 L—No Charge for Credit. .25.95

.410-GAUGE REPEATER. 2 guns in one—full and modified choke tubes. Fixed type top loading box magazine holds 3 shells. 23-in. barrel takes 2¾ or 3 inch shells. *Postpaid.*

60 WN 183 L—No Charge for Credit . . 22.95

K MOSSBERG-C-LECT-CHOKE REPEATERS. Low-priced shotgun with variable choke change patterns by turning outside collar. No tools needed, no extra tubes. Proof-tested barrel ventilated to reduce recoil, give uniform shot patterns. Takes 2¾-in. shells. Thumb safety. 3-shot capacity—2 in clip, 1 in chamber. Monte Carlo style stock of walnut finished hardwood. Bead front sight. Length overall 45½ in. Actual weights: 20 ga. 6¼ lbs., 16 ga. 6¾ lbs. No Credit Charge, these guns. *Postpaid.*

60 WN 188 L—20-ga. Mossberg 185K . 29.95
60 WN 190 L—16-ga Mossberg 190. . . . 31.95

L STEVENS NEW MODEL 15 SINGLE SHOT RIFLE. Newly designed .22 caliber rifle at an economical price. An ideal gun for beginners. Bolt action with new shape bolt handle. Easy takedown. Positive ejector, double strength extractor. Rebounding safety. Shoots short, long, or long rifle cartridges—regular or high speed. One-piece barrel and receiver. New barrel is 24 inches long. Sporting rear sight is adjustable for elevation. Gold bead front sight. New pistol grip stock with longer fore-end is walnut finished Actual weight 5 lbs. Length 40 inches.

60 WN 815 L—*Postpaid*. 12.70

M WESTERN FIELD .22 CAL. MODEL 33 REPEATER. Made especially for Wards—priced $14 to $24 lower than other .22 caliber slide action rifles.

Streamlined action permits short slide for rapid firing. Positive locking and ejection. Trigger cannot be pulled until action is closed and locked. Positive thumb safety has handy action release.

Tubular magazine holds 15 regular or high-speed .22 caliber long rifle cartridges. Also handles long or short cartridges. 23-in. tapered, proof tested barrel with crowned muzzle. Sporting type adjustable rear sight. Stock and slide handle are black walnut. Length overall 42 in. Actual weight about 5½ lbs.

Sold with or without Mossberg 2M4 telescope sight. Scope magnifies target 4 times, has hard-coated lenses. Internal windage, elevation adj. "Click" ¼-min. graduations. 20-ft. field of view at 100 yards.

60 W 831 L—Model 33 rifle with Mossberg 2M4 telescope sight. Ship. wt. 8 lbs. 42.90
60 W 830 L Rifle only. Ship. wt. 7 lbs. . . 32.95

WARNING: WARDS DO NOT SELL FIREARMS TO MINORS

N DAISY TWIN BARREL "PUMP N-SCOPE" SET. A fine gift for your young "sharpshooter." A genuine Daisy Model 25 fifty-shot repeater with 2-power scope. 2 easily interchangeable barrels—regular for steel B-Bs, the other for Daisy's new giant cork B-Bs to shoot at indoor targets—will give him twice as much fun. He also gets a bell-ringing metal target; 350 "Bullseye" B-Bs; 10 giant cork B-Bs; scope instructions; marksmanship manual. Rifle has open rear sight, blade front sight. Walnut finished stock.

60 W 1403 L—Ship. wt. set 8 lbs. . . . 10.29

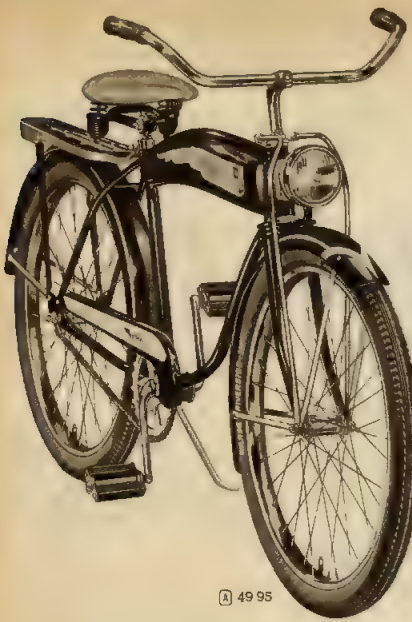
P DAISY "GUN-N-SCOPE" TARGET OUTFIT. Give that young "cowboy" a Daisy target set. Contains a Daisy "Red Ryder" air rifle with 2-power scope; a steel target that rings a bell with every bullseye; 25 target cards; and 350 "Bullseye" B-Bs. Gun is popular Western lever action carbine—holds about 1000 B-Bs. Carbine style foregrip, barrel bands. Saddle ring on left side has 18-in. leather thong. Walnut finished stock. Length 36 in. Marksmanship manual incl.

60 W 1430 L—Daisy Target Set. Ship. wt. 7 lbs. 7.29
60W1411L–Rifle only. Ship wt. 3 lbs. 8 oz. 5.19

BULLSEYE SHOT (not shown) Accurate copper coated steel shot for all Daisy Air Rifles. Package contains approx. 1500 shot.

60 W 1424—Ship. wt. 1 lb. 4 oz. 46c

Check local air rifle laws before ordering.



A 49.95

C 38.45

Hawthorne Bikes with Sparkling Chrome Trim

D 38.45

B 45.95

AMERICA'S NUMBER ONE CHRISTMAS GIFT IN SIZES AND STYLES FOR THE WHOLE FAMILY

Christmas Hawthornes still shine with as much gleaming chrome as before. Wards bought thousands of chrome plated parts so that you could have the same flashing beauty this Christmas regardless of restrictions. Handlebars, stem, truss rods, hubs, sprockets, plus rims on Bikes (A) and (B) are chrome plated. Every Hawthorne frame is Bonderized to protect against rust, then finished with two coats of automobile enamel.

Finest Nationally Known Equipment includes: New Departure Coaster Brakes for quick, safe stops; comfortable vinyl plastic Troxel saddles are waterproof. Lobdell steel rims; Torrington or Magna rubber pedals; Diamond roller chain; enameled chain guard, kick stand. All moving parts operate on smooth dustproof ball bearings. Every Hawthorne is equipped with Riverside Mate balloon tires, Butyl rubber tubes.

TANK MODEL WITH SEALED BEAM LIGHT 49.95

A This bike has all the features described above plus extra-value accessories. The only bike with a SEALED BEAM HEADLIGHT made by General Electric. Similar to sealed beam units used on automobiles. Throws a brilliant beam 30 to 50 feet ahead. Air, dust and moistureproof reflector cannot tarnish. Curved truss rods protect lamp. DELTA ELECTRIC WARNING HORN in streamlined tank. Horn and lamp operate on one standard 6-volt lantern battery (not incl.). Luggage carrier with reflector. Chrome plated rims, truss rods. Tire size: 26x2.125. Act. wt. Men's 51 lbs. Women's 49 lbs.

(A) 60 W 3060 R—MEN'S AND BOYS' MODEL. Black with red and white trim. For riders over 12. Ship. wt. 64 lbs. . $49.95

60 W 3081R WOMEN'S AND GIRLS' MODEL. Metallic green, white trim. For riders over 12. Ship. wt. 62 lbs. $49.95

WARDS JUNIOR HAWTHORNE TANK MODEL BIKE 45.95

B A fully equipped Junior bike at a low price. This Hawthorne has all the outstanding features found above plus nationally known bike accessories. DELTA WINNER HEADLIGHT AND ELECTRIC HORN. Each unit uses 2 flashlight cells (not incl.). Curved truss rods protect lamp. Streamlined luggage carrier with Simmonite red reflector. Chrome plated rims, truss rods. Tire size: 24x2.125. Actual weight 40 lbs.

(B) 60 W 3016 R—BOYS' JUNIOR HAWTHORNE. Red, metallic gray trim. For boys 7 to 12. Ship. wt. 54 lbs. $45.95

60 W 3017 R—GIRLS' JUNIOR HAWTHORNE (not shown). Blue, metallic gray trim. For girls 7 to 12. Ship. wt. 54 lbs . $45.95

WARDS HAWTHORNE STANDARD BIKE 38.45

C D Bikes have all the basic qualities for smooth, safe riding at the lowest possible price. They include all the standard mechanical and safety features which are a part of all Hawthorne Bikes. Only the extra accessories are not included. These accessories may be purchased separately as you want them. The Standard Hawthorne provides just what is needed in a dependable bike. Men's and Boys' models are bright red, Women's and Girls bikes are blue . . . both with contrasting stripes.

HAWTHORNE ADULT STANDARD BIKES. For riders over 12 years of age. Tire size: 26x2.125.

(C) 60 W 3032 R—Men's—Ship wt. 55 lbs . . . $38.45

(D) 60 W 3033 R—Women's—Ship wt. 54 lbs . . 38.45

HAWTHORNE JUNIOR STANDARD BIKES. Same as above, but for riders 7 to 11. Tire size: 24x2.125.

60 W 3038 R Boys'—Ship. wt. 51 lbs. $37.45

60 W 3039 R Girls'—Ship. wt. 50 lbs. 37.45

HAWTHORNE JUVENILE STANDARD BIKES. Same as above, but for riders 4 to 7. Tire size: 20x2.125.

60 W 3035 R—Boys'—Ship. wt. 43 lbs $36.45

60 W 3037 R—Girls'—Ship. wt. 41 lbs 36.45

NOTICE: Hawthornes are shipped promptly from Stock by Freight, Truck, or Express. State *transportation*.

FOR VELOCIPEDES AND SIDEWALK BIKES SEE PAGES 192–194.

Jacks

Blackhawk 5-Ton

"Light Heavy" model is designed for low axles, also for shop work in cramped quarters. Screw extension and wide safety margins.

Capacity Tons	5
Height Low, In.	5⅛
Hydraulic Lift, In.	5⅝
Screw Extension, In.	3¾
Total Height, In.	14⅝
Weight Pounds	14¼
Handle 2-pc. In.	34

Stock No.	Model	Fact. List EACH
22W 6312	AA-8.5	$27 70

One in a carton.

Industrial Hydraulic

The Heavy-Lift Blackhawk

20, 30 and 50 Ton Capacity

Easily controlled to the thousandth of an inch. Cannot lower accidentally, handle must be removed from pump to open release valve and overload capacity prevents breakdown.

	1W6315	1W6317	1W6318
Capacity Tons	20	30	50
Height In.	11	11	13
Hydraulic Lift In.	6⅜	8	8⅝
Total In.	17⅜	17	19⅝
Pounds Each	48½	75	111
Handle, 20 In. long No.	3	GB 1.70	GB 1.70

Stock No.	Mfr's. No.	Cat. List EACH
1W 6315	EA11	$ 61 90
1W 6317	FB11	139 90
1W 6318	GB11	186.85

Hydraulic Jack

Blackhawk

1½ Tons Capacity—Wings

Operates at any angle, horizontally or vertically, making usable for many industrial and shop operations as well as orthodox lifting of cars, trucks, etc. Its heat treated aluminum alloy one-piece construction brings you trouble-free performance. Built to serve majority of cars. Handle is 34 inches long.

Cap. Tons	Hyd. Lift In.	Low Ht. In.	Screw Ext. In.	Total Ht. In.	Base Size In.
1½	⅝	7¼	2¼	14⅛	3½x5⅝

Stock No.	Mfr's. No.	Color	lb. Each	Fact. List EACH
22W 6310	TB1	Red	7½	$13.95

Gauge-Equipped—Built to Order Only

Blackhawk

Gauge-equipped jacks offer double utility, for they may be used as ordinary jacks in addition to their use for testing. It may be desirable to protect the gauge for such work. In that case simply remove it and seal the opening with the proper sized pipe plug.

Gauge-equipped jacks are available in capacities as low as 7 tons or as high as 75 tons. For readings under 7 tons the gauges can be calibrated to the scale desired. For example if readings are required from 0 to 5000 pounds on a 4½ inch diameter gauge 100 calibrations the gauge would be calibrated to 50 pound units from 0 to 5000 pounds.

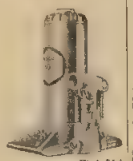
NOTE—Gauge-equipped jacks are built to order only, and for that reason cannot be exchanged or returned for credit.

Medium-Heavy Trucks and Buses

Blackhawk—8 Ton

For medium-heavy trucks and buses. "Middleweight" model CB-8 is for low-axle trucks and buses. Extra large, sled type. Screw extension.

Capacity Tons	8
Height Low, In.	9
Hydraulic Lift, In.	6¾
Screw Extension, In.	4¾
Total Height, In.	19½
Weight Pounds	19¼
Handle 2-pc. In.	34



Stock No.	Model	Fact. List EACH
22W 6313	CB-8	$25.90

One in a carton.

Extra High Lift

Blackhawk

Designed for steam and electric railways factories, mines, oil fields, mills, construction work—wherever extreme height and power are required. Time-saving double pumps—speed pump for quick contact—power pump for lifting load.

Specifications

Capacity Tons	20
Height Low, Inches	27
Hydraulic Lift, Inches	22½
Total Height, Inches	49½
Weight, Pounds	136
Handle No. 3, Lgth. In.	20

Stock No.	Mfr's. No.	Cat. List EACH
1W 6316	EA27	$138.90

One in a wood box.

Industrial Hydraulic

Blackhawk—12 Ton Capacity

Single hydraulic lift, combined with screw extension gives lowness with extreme lifting range.

Capacity Tons	12
Height In.	8⅜
Screw Extension, In.	3
Hydraulic Lift, In.	5
Total In.	16⅜
Pounds each	28
Handle No. 3, 1-pc., lgth. In.	20

Stock No.	Mfr's. No.	Fact. List EACH
1W 6314	DB7	$36 95

One in a wood box.

Hydraulic Jack and Lift Oil

Blackhawk

Do not use Hydraulic Brake Fluid or Oil in Jacks, it acts as a solvent, deteriorates and rapidly destroys leather cups.

Blackhawk Hydraulic Oil is scientifically prepared for hydraulic jacks, presses and hoists to replace the original oil. Will work under all weather conditions and in any make of jack.

Has good penetrating qualities which recommend it for use on light machinery and household appliances.

Stock No.	Size	lb. Each	Cat. List EACH
2W 6459	1 qt.	2	$1 25
2W 6460	1 gal.	10	3 10

2W6459, twelve cans in a case.

Jacks

Scissors Type

The Brooks model L 1 is of stamped steel. It is unusually handy, instantly meets every lifting need. Strongly built, performs smoothly, easy by simply Power screw shaft is precision machined and threaded. Capacity, 6000lb; Lift, 4½ to 13 inches. Low point 4½ inches, permits use under lowest slung cars. Complete with 42 inch folding handle.

Stock No.	Mfr's. No.	Std. Clo.	lb Pkg.	Cat. List EACH
2W 6528	535	1	10	$7.50

Single Screw Jack

Walker

Designed primarily for trucks, it has large ball bearings, rugged gears and will lift rated capacity. Due to precision lift it is used also for removing and replacing shackle bolts, installing spring leaves, removing fly wheels, etc. Malleable iron, blue enamel finish.

Capacity Tons	3
Height In.	9¼
Lift In.	5½
Diameter Screw In.	¾
Pounds Each	10½
Handle In.	18
Ext. Cap. In.	2

Stock No.	Mfr's. No.	Fact. List EACH
2W 6608	235	$11.80

Double Extension Screw Jack

Walker

Steel cap with tilting feature insures a positive grip. Built to handle popular light weight cars with springs and axles set low to ground. Folding handle. Black finish. Pressed steel.

Capacity Tons	¾
Height In.	5¾
Lift In.	7¼
Total In.	13
Diameter Screw In.	⅝
Diameter Screw In.	⅝
Pounds Each	4½
Handle In.	39

Stock No.	Mfr's. No.	Fact. List EACH
2W 6506	325	$4.20

Pick-Up—Bumper Jack

Hydraulic—Blackhawk

Services all cars. You can stand up to operate. Quick hydraulic lift. The big, adjustable toe fits under any height bracket or bumper. It also reverses for bumpers with holes or slots. A new "L" shaped hole works in three convenient positions. The base is oval-shaped for better stability.

Cap. tons	1½
Low, height in.	2¾
Hydraulic lift, in.	18
Low Toe, height in.	3¼
High Toe, height in.	21¼
Total height, in.	39¾
Weight, pounds	15
Mo.s No.	J.6.70

Stock No.	Mfr's. No.	Fact. List EACH
1W 6307	J18	$18 75

Lift Post Jack

Blackhawk

Hydraulic—Portable

A portable lift that saves more jobs than any wheeled lifting equipment today, such as changing tires, washing wheels, putting on chains, fender and body work, changing wheels, lifting tractor and farm implements, washing under fenders, packing wheel bearings, inspecting brakes, emergency road calls, installing muffler tail pipes, locating squeaks, etc.

Capacity, tons	1½
Collapsed height, in.	29½
Hydraulic lift in	18
Lowest toe adjustment from ground in.	5
Highest toe adjustment from ground in.	26
Base diameter in.	14
Wheel size dia. in.	8 x 1¾
Axle in.	13
Weight, pounds	38

Stock No.	Mfr's. No.	Cat. List EACH
1W 6308	J17	$56.35

Blackhawk 3-Ton

Has screw extension, light weight, sled base. For brake machines, grease racks, speed wagons, buses and trucks, from 1 to 3-ton loads. Made of malleable iron and steel. Double telescoping lift. Ideal for low slung buses and trucks, and on many industrial jobs.

Capacity Tons	3
Height Low, In.	8¼
Hydraulic Lift, In.	6
Screw Extension, In.	3½
Total Height, In.	18
Weight Pounds	31¼
Handle, 2-piece, length inches	35

Stock No.	Model	Fact. List EACH
2W 6311	BA-3.5	$18 70

One in a carton.

No. 65 TEA SET

New style box and filler. Fifteen piece set. 5 x 7" tray, 4 cups, 4 saucers, 4-4" plates, tea pot and lid. 2 doz. case.

Doz. $6.40

No. 72 "BLUE WILLOW" TEA SET

No. 71 "CIRCUS" TEA SET

31-piece set...new style package. Both sets contain 6 each - cups, saucers, butter plates, 4" plates, 1 footed sugar bowl, tall creamer, handled dish with cover, tea pot and lid. 10½" tray. Sets not osst'd in tray.

Doz. $10.80

No. 23 MIX IT SET

Small Fry Mix It Set, with bowl, mixer and two utensils.

Doz. $4.00

3 pc. KITCHEN UTENSIL SET

No. 112 - Aluminum frying pan with spatula and pancake turner mounted on a die-cut 10 x 8 card. Utensils have 2-tone plastic handles. 1 doz. to ctn.

Doz. $2.00

No. 63 TEA SET

Nine piece set. 5 x 7" tray, 2 cups, 2 saucers, 2 - 4" plates, tea pot and lid. 2 doz. case.

Doz. $3.60

No. 61 TEA SET

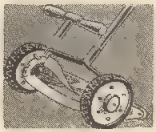
Seven piece set. 4" tray, 2 cups, 2 saucers, tea pot and lid to set.

Doz. $2.00

JAK-PAK

An all-plastic permanent container which holds 10 copper jacks and one 1¾ in. red enamel sponge ball. Convenient for child to carry and keep intact

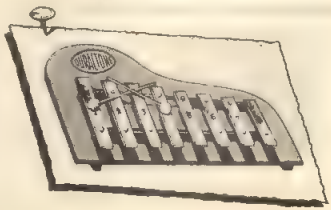
IJP Doz. $1.20



Lawn Mower

Made of heavy gauge steel. 25 x 8 in. Baked enamel finish. 3¼ in. wheels. Rubber tires. Clicking noise when pushed. Packed ½ doz.-

No. 295 Doz. $15.00



No. 14/10 PLASTIC XYLOPHONE

Shaped like a Grand Piano and consisting of scale of 8 notes with 2 sticks, that makes real music because the aluminum metal has a pleasant tone. Packed: Individually in attractive two-tone box.

Doz. $8.00

MOTORS—MARINE ACCESSORIES

1¼ H.P. Standard. Light weight trolling motor with rope starter, 360° full reversing; 1 cylinder, 3.11 cu. in. displacement. Gas tank capacity 0.5 gal. Wt. 21 lbs. Retail 71.00.

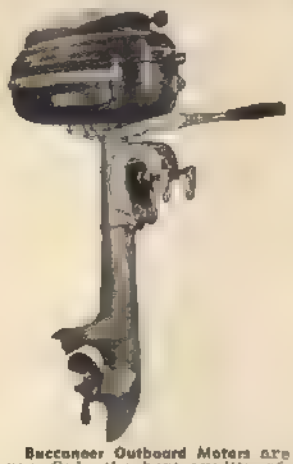
No. 3R5. Each **55.75**

3 H.P. Standard (Illustrated). Powerful single cylinder motor (5.32 cu. in. displacement). Rope starter, 360° full reversing, rubber mounted, salt water protected. Weight 28 lbs. Retail $105.

No. 3R1. Each **79.75**

3 H.P. DeLuxe. Same as above with addition of rewind starter and streamlined housing similar to that used on 5 H.P. and 12 H.P. models. Weight 28 lbs. Retail 118.75.

No. 3R7. Each **88.75**



Buccaneer Outboard Motors are designed and engineered to give outstanding performance with trouble-free use. Only the best quality of material and the latest modern-tested and proven advances in design, engineering and manufacturing methods are used by Gale Products Corporation, one of the oldest manufacturers of outboard motors. Complete cylinder assembly. Alternate firing to assure trouble-free, smooth operation. Steel alloy crank shaft. Aluminum alloy pistons and connecting rods. Phosphor bronze bearings. Positive type rubber rotor waterpump. Rubber cushioned propeller. Single jet carburator, float feed, reed valve type with low speed timing adjustment. All horsepower ratings certified by Outboard Boating Club of America. Salt water protected and rubber mounted to reduce vibration. Equipped with two blade weedless propeller.

5 H.P. Standard (Illustrated). Alternate firing twin with automatic rewind starter. Full 360° pivot. Fuel capacity 0.8 gal. Propeller rubber cushion shock absorber. Two cylinder, 5.84 cu. in. displacement, synchronized single lever spark and throttle control. Retail 156.75.

No. 3R2. Each **117.50**

5 H.P. DeLuxe (Illustrated). Alternate firing twin with "flexi-clutch" and neutral clutch. Permits shifting at any speed for greater maneuvering and control. Flexible rubber cushioned propeller protection, slip clutch eliminates shear pins. New type water proof magneto for stronger spark and easier starting. Stainless steel propeller shaft and drive shaft. Fuel tank capacity 0.8 gal., weight 46½ lbs. Retail 171.75.

No. 3R3. Each **128.75**

12 H.P. Standard. Alternate Firing Twin with automatic rewind starter. Fuel tank capacity 1.5 gal., weight 66 lbs. Retail 246.75.

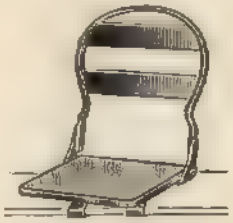
No. 3R6. Each **185.00**

12 H.P. DeLuxe (Illustrated). Features gear shift allowing neutral, forward and reverse speeds. Twist grip throttle control; spring loaded tilting feature, automatic rewind starter. Adjustable co-pact safe ture firing twin, fuel tank capacity 1.5 gal. Equipped with 3-blade semi-weedless propeller with rubber shock absorber. Water proof magneto; stainless steel propeller shaft, stainless steel drive shaft. Retail 280.50.

No. 3R4. Each **210.25**

Aluminum Folding Boat Seat. Light weight seat ideal for use in boat or as a stadium seat. Steel reinforced clamps securely to edge of seat. Cushion seat with water proof canvas bag. Packed 12 to carton in assorted colors. Retail 4.95.

No. 19R195. Per dozen **36.00**
Each **3.28**



Boat Seat. Flexible steel back designed to conform to body. Inlaid cork seat over steel. Made of pressed steel, green enamel finish. Folds flat. Weight 7 lbs. Retail 5.75.

No. 19R192. Each **3.24**

Swivel Boat Seat. All-steel seat with flexible back and inlaid cork. Ball bearing swivel permits seat to turn completely around. Adjustable screw clamps and hooks. Green enamel finish. Folds flat. Weight 11½ lbs. Retail 8.95.

No. 19R193. Each **5.37**

Ta-Pat-Co Life Preserver Cushion. Box type cushion covered with leatherette with strong welted seams. Filled with new Java Kapok. Size 15"x15"x2". Government approval No. 160-007/14/0. Packed 6 to carton. Retail 4.60.

No. 23R404. Per dozen.. **32.80**
Each **3.18**

Ta-Pat-Co Stay Afloat. Swim vest for children filled with new Java Kapok for most buoyancy. Cannot slip up or down or come off accidentally. Adjustable straps. Kapok filled shoulders. Available in bright orange color. Packed 12 to a carton.

No. 23R406
Small size. Age 2-4 yrs.
Doz. **29.70**
Each **2.75**

No. 23R407
Medium size. Age 4-7 yrs.
Doz. **32.80**
Each **3.18**

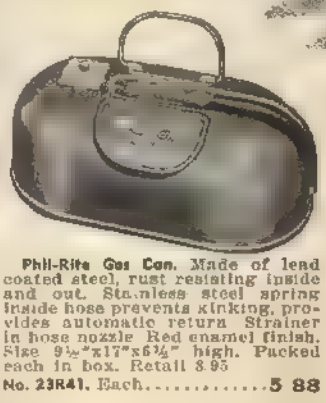
No. 23R408
Large size. Age 7-12 yrs.
Doz. **35.80**
Each **3.35**

Ta-Pat-Co Sportster Life-Save Vest. Comfortable and light weight vest filled with new Java Kapok. Easy fitting, puncture proof, dependable. Adjustable to fit all adults. Complies with Federal Motor Boat Law Specifications. Packed 6 to carton. Retail 9.95.

No. 23R403. Per doz... **63.60**
Each **5.45**

Outboard Motor Safety Chain. 60" twisted link chain, with swivel snaps and a Universal bracket. Fits tilt bolt of any outboard motor. Cadmium plated for rust resistance. Each in box, one doz. to display carton. Retail 1.00.

No. 19R50.
Per dozen **7.06**



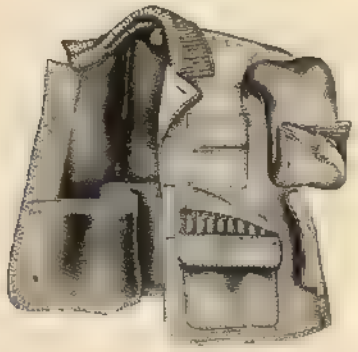
Phil-Rite Gas Can. Made of lead coated steel, rust resisting inside and out. Stainless steel spring inside hose prevents kinking, provides automatic return. Strainer in hose nozzle. Red enamel finish. Size 9½"x17"x6¼" high. Packed each in box. Retail 8.95.

No. 23R41. Each **5.88**

Hodgman FunFlote. Made of strong duck fabric heavily rubberized with two layers of specially compounded vulcanized rubber. Bright wide stripe designs and plain colors fast to sun and salt water. Smallest FunFlote can support two adults. Largest size 3 to 4 with safety. Safety rope on end.

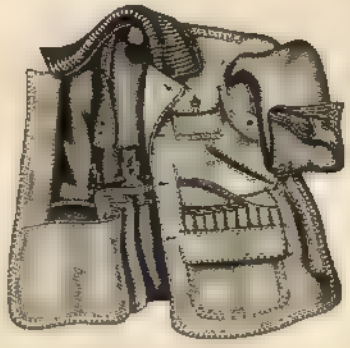
No.	Size	Weight
23R310	25"x48"	4½ lbs.
(Retail 17.50) Each		**12.08**
23R311	25"x72"	6½ lbs.
(Retail 24.35) Each		**15.91**

HUNTING AND FISHING CLOTHING



Blue Bill Hunting Coat. Made of heavy forest brown army duck, waterproofed. Rubberized game pocket. Shell loops, flap pockets, breast pocket, corduroy collar and cuff lining. Available in even sizes only, 36-48.

No. 22R3 Each. **6.70**



Red Head Hunting Coat. Made of heavy army duck, with rubberized back, front yoke, and upper sleeve lining. Drop seat blood proofed game pocket, bi-swing back, shell loops and pockets with flaps. Hand warmer pockets, pivot sleeves, breast pocket, adjustable corduroy cuffs, corduroy collar. Available in even sizes only, 36-48. Each in box.

No. 22R1. Each.....**10.80**

Red Head Zouaves. Made of heavy army duck, with knit cuff, reinforced leg front and seat, hip pockets with button flaps, two side pockets. Reinforcements on army duck grade rubberized, making them bone dry. Furnished with zipper flies. Available in even waist sizes only, 30-44. Each in box.

No. 22R2. Per pair..... **7.10**

Blue Bill Hunting Pants. Made of heavy forest brown army duck. Reinforced seat and leg front of same material. Two side pockets, watch pocket, two hip pockets. Available in even waist sizes only, 30-44.

No. 22R4.
Per pair **5.32**

Red Head Quailer Vest. Combination shell vest and game bag of light weight forest brown army duck, water repellent. Rubberized game pocket, shell loops, flap pockets, breast pocket with two shell loops. Available in small, medium, and large sizes.

No. 22R6.
Each..... **4.34**

Blue Bill Deer Stalker Caps. Made of forest brown waterproofed army duck. Red drill reversible interlining, flannel lined, corduroy ear flaps. Available in sizes 7, 7¼, and 7½.

No. 22R5. Per dozen **11.76**

Fabrico Fisherman's Stocking Foot Wader. Made from waterproof olive drab vinylite with electronically welded seams. Convenient inside pocket. Metal suspender buttons. Elastic waist-band for snug fit. Packed each in waterproof pouch, with patching kit included. Available in small, medium, and large. Retail 8.50.

No. 23R352. Each.....**5.00**

Fabrico Fisherman's Rain Parka. Made from waterproof olive drab vinylite with electronically welded seams. Pullover style with attached hood, 15" zipper opening. Has outside front pocket. Full length with room for arm and leg action. Packed each in waterproof pouch. Available in small, medium and large. Retail 6.50.

No. 23R351. Each.....**3.92**

Hodgman Wadewell Hip Wader Boot Foot. A hip-high wader with the famous Wadewell wader material top to provide maximum comfort, coolness and light weight. Weighs 20% less than average fisherman's all rubber hip boot. Pressure vulcanized as a complete unit. Boot feet sturdily constructed with cleated soles, molded heels and hard toe caps. Boots fashioned on foot-shaped last. Available in sizes 6-12. Specify size wanted. Retail 16.50.

No. 23R309. Each pair.... ..**10.78**

Hodgman Wadewell Foot Waders. Extra strong doubled fabric triply reinforced at seams. Seams stitched, cemented and strapped. Rubber coated fabric at inseams and crotch. Boot feet of sturdy construction with cleated soles, molded heels and hard toe caps to prevent bruises. Boots fashioned on foot shaped last for real walking comfort. Roomy inside pocket. Drawstrings and suspender buttons. Entire wader vulcanized as a unit after making. Color, Khaki. Weight 5¾ lbs. Regular sizes only. Specify size wanted. Retail 29.95.

Shoe Size	Inseam	Seat
7	31½	40
8	32	41
9	32½	42
10	33	43
11	33½	44
12	34	45

No. 23R304. Each pair. **19.60**

Wader Suspenders. Excellent grade of hand-doubled rubberized fabric with insert of fine quality elastic webbing. Buttonholes reinforced and stitched. Extra holes permit proper adjustment. Retail 1.75.

No. 23R305. Each.....**1.14**

Head Net. Fine mesh marquisette, with panel for clear vision, an opening for pipe or cigarettes. Large, roomy shoulders. Each in paper envelope. Retail 1.25.

No. 23R355.
Per dozen .. **8.82**
Each .... . **.90**

Fabrico Fisherman's Hip-High Stocking Foot Wader. Made from waterproof olive drab vinylite with electronically welded seams. Gives full protection up to the hip, made to be worn with gym shoes or wader shoes. Plastic strap and buckle for attaching wader to trouser belt. Each in box, available in small, medium, and large. Retail 4.25.

No. 23R353 Each.....**2.50**

Blessed Event Doll—1951 Hit

2 MODELS—
EACH A FAVORITE

She pouts, puckers, and cries as you operate this "easy to do" mechanism which is completely within doll—nothing to get out of order. She changes her expression and cries—all by just pressing her little body—a simple plunger mechanism makes all the changes.

The latest smash hit doll! The very very newest in new-born infants! A 21 inch, soft, lovable, and cuddly doll. The only doll in the world to change her expression—the nearest approach to a real as life new-born baby ever made. Has flexible skin that permits change of expression and soft crying plaintive voice ranging from a whimper to a loud cry. All these changes can be made at will by operator—by pressing simple plunger mechanism. Vinyl, soft plastic head, arms, and legs—they are almost human to the touch. Beautifully detailed down to the tiny nails. Cloth covered body is filled with soft, fluffy cotton to make her soft and cuddly. **Marvelous new material has made it possible to press her body and see her open her mouth and cry—to put finger in her mouth and actually feel her suckle—to see her little tongue—and hear a range of real baby cries.** Packaged in attractive display box. Ship. wt. 7 lbs. **Retail $12.00.**

751R20—Each $8.40 ..... IN LOTS OF 3, EACH **$7.95**

BLESSED EVENT WITH HEARTBEAT!

This Blessed Event baby doll has the unbelievable feature of actually hearing her heart beat. The built-in heartbeat is scientifically accurate, 120 beats to the minute—just like a new-born baby. **Nothing to wind up.** Every little Miss will be thrilled to hold her ear to the baby doll's chest and actually hear the heartbeat. **Made just like the Blessed Event doll as described above.** Packed in attractive display box Ship. wt. 7 lbs. **Retail $15.00.**

751R21—Each $10.50 ..... IN LOTS OF 3, EACH **$9.95**

Nationally Known Toni Dolls

TONI DOLL COMPLETE WITH TONI PLAYWAVE KIT

This darling new Toni doll will be a sensational seller throughout the country. **Its magic Nylon wig can be shampooed and playwaved over and over again.** Hair can be done in many different styles. **Complete Toni playwave kit included, contains: Playwave solution, creme shampoo, Toni curlers, rubber bands, tissues, and directions.** Doll is made of beautifully molded plastic with the finest detailing found only in the most expensive dolls. Fully dressed. **Available in 2 sizes listed below.** Packaged in attractive 3-color Toni display box.

14" Doll. Ship. wt. 2 lbs. **Retail $12.00.**

751R24 ..... EACH **$8.40**

IN LOTS OF 3, EACH $7.95

18" Doll. Ship. wt. 4 lbs. **Retail $17.00.**

751R25 ..... EACH **$11.90**

IN LOTS OF 3, EACH $11.25

14" TONI BRIDE DOLL

A most beautiful bride doll with the added attraction of having the famous magic Nylon wig which can be shampooed and playwaved over and over again. This all plastic bride doll is exquisitely dressed with lustrous White rayon gown trimmed with lace, bridal veil and flowers, slip, undies, shoes and socks. Doll holds pretty, bell-boned bridal bouquet. **Size of doll; 14". Also included is complete Toni playwave kit containing: Bottle of playwave solution, creme shampoo, Toni curlers, rubber bands, tissues, and directions.** Packaged in attractive 3-color Toni display box. Ship. wt. 3 lbs. **Retail $14.00.**

751R26—Each $9.80 ..... IN LOTS OF 3, EACH **$9.35**

HOWDY DOODY

BELOVED TELEVISION STAR OF MILLIONS OF KIDS

Controllable Head and Mouth

Bob Smith's boy has become a national institution—the television idol of today's children of all ages. The brand new life-like creation of Howdy Doody, an exact reproduction in every detail, will prove to be a sensational seller. **Dressed in a smart cowboy outfit, he's a perfect replica of his television puppet counterpart even to the controllable spring for moving his head and mouth.** Body is all cotton stuffed. Head made of plastic with movable mouth. Hands are soft Vinyl. The entertaining, humorous expression of this popular "artist" accentuates his plaid shirt, western belt, trousers, and boots. **Height 20".** Ship. wt. 4 lbs. **Retail $7.00.**

751R49—Each $4.90 ..... IN LOTS OF 3, EACH **$4.65**

BROTHER AND SISTER COOS DOLLS

They Sob—They Cry—They Coo

BROTHER COOS

Handsome twin brother of Sister Coos dolls. (Same sizes as Sister Coos illustrated opposite). Dressed in adorable velveteen overall with matching beret and White buckskin shoes. **This darling dimpled brother cries when squeezed hard, sobs when spanked, and coos contentedly when hugged.** Life-like, magic skin body that can be washed, bathed and powdered like a real baby's skin. Blue lucite eyes and unbreakable plastic head. Ship. wt. 2 lbs.

14" size. Retail $7.00.

751R30—Each $4.90 . IN LOTS OF 3, EACH $4.65

18" size. Retail $11.00.

751R35—Each $7.70. . . IN LOTS OF 3, EACH $7.35

SISTER COOS DOLL

Lovable cooing Sister doll is completely attired in her best finery including the Sunday bonnet. (Available in same sizes as Brother Coos as illustrated). Her soft rubber body is almost human to the touch. She coos, cries, or sobs. Has unbreakable plastic head with beautiful movable sleeping eyes. Her dress is a floral organdy with a ribbon-tied matching bonnet. Individually boxed.

14" size. Ship. wt. 3 lbs.

751R27—Retail $7.00. . . . . EACH $4.90
IN LOTS OF 3, EACH $4.65

18" size. Ship. wt. 4 lbs.

751R28—Retail $11.00. . . . . EACH $7.70
IN LOTS OF 3, EACH $7.35

SENSATIONAL LIFE-SIZE COOS!

27" doll—the size of a baby! Amazingly like a real live baby. **Both Brother and Sister Coos styles are available in the real baby size.** Their charm is irresistible to both adults and children. They both have the life-like, magic skin body that can be washed. Blue lucite eyes and unbreakable plastic head. Brother Coos is dressed in velveteen overalls with matching beret, White shoes, stockings, and shirt. Sister Coos wears a beautiful Sunday dress with complete, dainty underclothing and White buckskin shoes. Ship. wt. each 5 lbs. **Retail each $22.00.**

Sister Coos. 27" size.

751R31—Ea. $15.40. . IN LOTS OF 3, EACH $14.35

Brother Coos. 27" size.

751R32—Ea. $15.40. . IN LOTS OF 3, EACH $14.35

BETSY WALKER

Beautiful, big 21" size doll that walks alone with astonishing, easy and natural childlike grace.

She's easy to operate—nothing to push or pull, Motor is guaranteed for one year. Spring is tested for 10,000 windings and has a safety lock so that it cannot be unwound.

She has a most beautiful body—constructed of unbreakable, 100% Tenite plastic. New, Kurcned pantles that are washable and have a design that looks like real lace.

She's as natural in appearance as nature herself with delicately sculptured head, hands, legs, and feet. All the excellent detail together with a perfect complexion will delight your most discriminating customers.

She's fully jointed—when she walks her head, arms and body move. There is nothing to adjust.

THE WALKING DOLL

She rolls her eyes—as easily and naturally as she walks. Her eyes are human—made possible by a revolutionary process whereby an actual photograph of a human eye is reproduced in miniature.

She's easy to dress and undress. Superb, tailored wardrobe is carefully finished throughout. Wears real leather shoes.

It's a thrill to watch Betsy Walker take her first step. There never was a doll like Betsy Walker. Her charm and natural beauty together with her magnetic, moving eyes that move with natural ease as she walks, will captivate every customer who comes into your store. **The miracle doll of 1951!** Gift wrapped and boxed. Ship. wt. 6 lbs. Fair-traded. **Retail $19.95.**

751R35—Each $13.65.

IN LOTS OF 3, EACH $13.35

CURLY COOS—NEW LIFE SIZE DOLLS

30 INCHES TALL

As big as a 3-year-old child and wear real 3-year-old child's clothes. The Curly Coos have a magic voice that sobs, cries, and coos. Both dolls have the life-like magic skin body, arms and legs. Unbreakable plastic head, sleeping eyes, and soft fluffy wigs.

Boy doll is dressed in fashionable Grey Eton suit with Red and Black checkered zipper-jacket and colorful polo shirt. Wears Grey beret to match and real child's shoes and sox.

Girl doll is dressed in pastel colored party dress with lace trimmed organdie apron and bonnet to match. Wears real child's shoes and sox.

Size, 30" tall. Ship. wt. 8 lbs. Retail $30.00.

751R34—Boy Doll, Each $21.00. . . . .IN LOTS OF 3, EACH $19.95

751R33—Girl Doll,

Each $21.00.. . . . .IN LOTS OF 3, EACH $19.95

JUDY SPLINTERS—TELEVISION STAR

- Authentic reproduction of famous "Judy Splinters" television character.
- Head turns—arms and legs are fully jointed.
- Vinylite soft plastic head, painted eyes, open mouth, tongue, and excellent facial details.
- Latex arms and legs.
- Cotton and foam rubber filled.
- Rayon yarn pigtails wig, ribbon bow tied.
- Attached ring for turning head.

Judy wears her authentic television clothes consisting of broadcloth attached romper dress, bolero jacket, attached waist, socks, and shoes. **Size: 22" tall.** Ship. wt. 5 lbs. **Retail $12.00.**

751R23—Each $8.40. . . . .IN LOTS OF 3. EACH $7.95

Nos. 10, 12 and 14 Meta. Cutting Snips

YOUR PROFITS

No. 1W Tree Trimmer

No. 44 Pole Saw

Depend on Customer's Demands

BARTLETT Compound Lever PRODUCTS

Enjoy a world-wide reputation

Bartlett Shears and Snips are specified by users of meta, wherever difficult cutting is encountered. Our Tree Pruners are standard equipment with most public utility companies, state highway departments and tree experts.

Customers who buy only the best demand Bartlett Tools. Our tools cut easier because of the Compound Lever.

No 777 Lopping Shear

That's why they cut the full length of the blade.

It will pay YOU to stock Bartlett Tools

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3003 E. Grand Blvd., Box 54, Detroit 2, Mich.

THERE'S PROFIT *in* PAGE'S SEEDS

You can depend on the consistent quality of Page's seeds for they are carefully selected and tested by men who 'know seeds'. You will like Page's prompt service, too.

PAGE'S PS SEEDS

THE PAGE SEED CO., BOX B-3, GREENE, N.Y.

A NATURAL FOR EXTRA PROFITS FROM YOUR GARDEN HOSE SALES

Snap-Tite COUPLER

SNAP ON... SNAP OFF... LEAKPROOF CONNECTION ELIMINATES CROSS THREADING AND HOSE KINKING

Snap-Tite Couplers are precision made from machined brass to last a lifetime. The patented U-Packer and Swivel bearings are exclusive features that assure absolute customer satisfaction.

OVER 10 MILLION NOW IN USE

Available on individual display cards and in counter cartons holding 12 couplers and 12 extra nipples.

Replacement springs and U-Packer available at small cost.

Snap-Tite INC.

UNION CITY, PA.

WHAT ZIPPERS ARE TO CLOTHES, SNAP-TITES ARE TO HOSE

Bolens builds profitable "Big Ticket" volume!

— with these 3 outstanding yard and garden implements

New Gasoline Rotary Mower

"Plenty of sales appeal" fits this streamlined beauty to a "T". Light, perfectly balanced, it cuts grass, tall weeds, heavy growths with ease. 2 HP Clinton engine. Adjustable cutting heights. Set-in wheels permit mowing close to obstacles. Cuts 20" swath forward or backward.

Popular 1.6 H.P. Handi-Ho Tractor

You can count on it — one Handi-Ho sells another because it makes yard and garden work a breeze. It's a powerful, easy-handling versatile tractor featuring fingertip controls, perfect balance, pivoted tool control steering. Attachments for mowing, weed cutting, snow plowing mean year around sales.

New Electric Rotary Mower

Backed by Bolens research and engineering skill, this speedy, efficient mower practically sells itself.

Completely guarded 16" cutting blade. ½ HP Delco Motor. Adjustable cutting heights. 50' weatherproof cord. Simple controls, perfect balance, light weight. Cuts grass, weeds, dandelions cleanly, evenly.

Each of these is a "big value" Bolens sales-builder. And their big value builds big volume—each sale bringing you a big ticket profit! Other garden tractor models available from 2 HP to 6 HP.

Write or wire for additional information.

BOLENS PRODUCTS DIVISION

Food Machinery and Chemical Corporation

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EXCITING FREE GIFT FOR THE FIRST 1000 VISITORS!

Spin-A-Wheel
PRESENTS

BOZO

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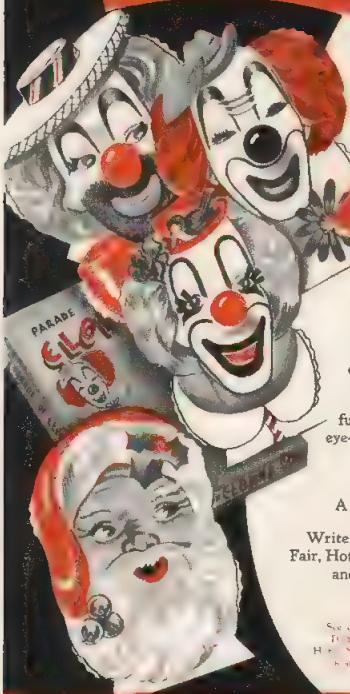
The Capitol Clown...
and the

GENUINE BOZO THE CLOWN PRODUCT

PARADE OF CLOWNS



CHANGING FACIAL EXPRESSIONS

NEW! Here's BOZO THE CLOWN! Known from coast-to-coast with a FAME that spells PROFIT for you!

Animated changing facial expressions produce hundreds of funny variations on a single unit. Lithographed in sparkling, eye-catching, sales-compelling full color on tough six ply board. Gleaming varnish. Measures 10" high by 7" wide. Irresistable to children and parents.

A tremendous VOLUME item . . a tremendous PROFIT item!

Write for full details, or see Capitol Record's BOZO at the Toy Fair, Hotel New Yorker, Room 987. Also, Spin-A-Wheel's SANTA and PARADE OF CLOWNS. Extremely attractive distribution opportunities still available in many major markets.
SIX TO EIGHT WEEK DELIVERY

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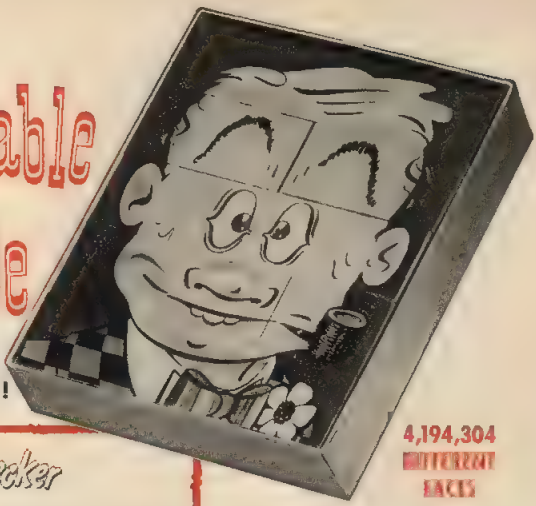
Spin-A-Wheel
TOY CO., INC.
300 BOUTELLE ST. FITCHBURG, MASSACHUSETTS

Changeable Charlie

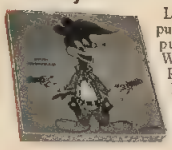
EVERY DEALER'S BASIC PROFIT ITEM!



4,194,304 DIFFERENT FACES

As long as children are curious, they'll go for Charlie's 4,194,304 different faces! He glares, smiles, wears a straw hat, goes bald! Lithographed in six brilliant colors. Size per attractively-boxed unit, 5¼" x 6¾". Minimum order, two dozen. Packed in master shipping carton, weight approx. 23 lbs. NEW retail price.....$1.00

Woody Woodpecker



Look! New "Juggle Puzzle!" Six puzzles to box; six pieces per puzzle! Features WOODY WOODPECKER, OSWALD RABBIT, LITTLE ROQUEFORT, WALLY WALRUS, ANDY and MIRANDA PANDA! Beautifully lithographed; laminated on heavy cardboard. Over 46,656 combinations!

BOZO THE CAPITOL CLOWN ✻

The kiddies' favorite . . backed by a promotional powerhouse of records, books, TV! BOZO grins, laughs, cries, blows bubbles, puts hands up in amazement. Over a million changes possible with the ten, full-color lithographed wood blocks. Size per attractively-boxed unit, 7" x 7". Minimum order, two dozen. Packed in master shipping carton, weight approx. 27 lbs. NEW retail price.....$1.00

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RUDOLPH The Red Nosed Reindeer

No. 811
14 x 9¾ inches
COLONIAL GRAIN LEATHERETTE

PreP BRIEF CASES RING BINDERS

One of those natural HEADLINERS that comes like an inspiration to merchants in search of a LIFT! This striking school bag capitalizes the immense glamor of one of America's most beloved little characters. Available with plastic handle or with convenient leather shoulder strap. Back DOUBLE-STITCHED to gusset, and that means DOUBLE life to the bag! Featuring a rich BLUE Colonial grain Leatherette . . . what a trade-winner!

DOUBLE-STITCHED for double wear

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Miscellaneous Toys

Little Queen
Bissell's

A real miniature sweeper for the child who wants to help mother. For juvenile housekeeper and adults for smaller pick up jobs around home and office. Bright red steel top, wheel guards, plywood sides and 38 inch handle in dark rich maroon. Rubber bumper and tires, real bristol brush, chrome plated ball and dump for emptying dustpan.

Stock No.	Size In.	Handle Lgth. In.	lb Doz	Fact. List EACH
4H 204	9x5¾x2½	27	21	[S]$2.69

One dozen in a carton

Little Helper

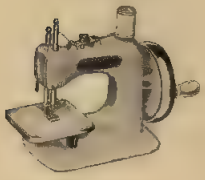
Bissel

Appealing play size sweeper that really sweeps and has pans that open and empty. Sturdy steel top and plywood ends. Story book style pictures decorate the top. Lithographed in six gay but mild colors with the wood parts finished in harmonizing lacquer enamels: wood ends in blue, wheels and 20 inch handle in red. The dainty ball is chrome plated.

Stock No.	Size In.	Handle Lgth. In.	lb Doz.	Fact. List EACH
4H 208	7¾x4¾x2	20	14	[S]$0.98

One dozen in a carton.

Sewing Machine



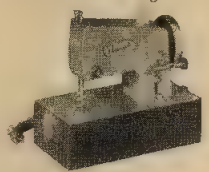
Stitch Mistress

Perfect miniature model of latest machine for "grown ups". The aluminum body encloses all the gear mechanism. Hammerloid finish. Bright nickel trim. Non-marring base and metal clamp for holding machine on table top.

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
4H 3042	49	2¼	$7.15

One dozen in a carton.

Portable Electric Sewing Machine

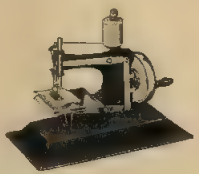


Bradford—Dabutante

"Debutante" portable electric sewing machine sews beautifully and swiftly all types of home sewing. The lock-stitch mechanism assures slip-free sewing with that professional look. Has all the features enjoyed in the larger, heavier type portables, yet sells for about half the price. It features: lock stitch mechanism, full adjustable stitch, fully adjustable pressure foot, practical bobbin winder, shuttle easily accessible, total enclosed mechanism, attractive bronze hammeroid finish, lustrous chrome plated trim, dust proof cover with handle of simulated leather, ceremony size. Underwriters approved motor.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Each	Fact. List EACH
4H 3044	75	10½	8	10	9	$29.95

Three in a carton.

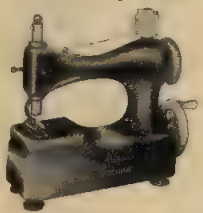


Bradford—Gateway

Junior hand driven sewing machine. It is precision made; with good care it will operate effectively for many years. Every machine tested before leaving factory. Manufactured from pressed steel.

Stock No	Mfr's. No.	Size Inch Lgth.	Wd	Ht.	Cat. List EACH
4H 3043	N.P 1	8⅝	4½	6	$3.70

Plastic Sewing Machine



Hassenfeld

Junior Miss sewing machine. It actually sews just like mothers. Smooth, easy sewing action for tiny hands. Simplicity of operation, any child can run it. No parts to loose, no adjustments necessary. Rubber suction cups for steady mar-proof mounting. Molded in strong plastic. Packed in kit with thread, cut out patterns, scissors, etc.

Stock No.	Mfr's. No.	Size In.	lb Doz.	Cat. List EACH
4H 2582	1500	8x5x2	8	$1.60

One in a box. One dozen in a carton

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PUZZLES

See the Completely NEW...

Exclusive **LOKDWOOD** *material*

New Lokdwood is ideal for puzzles.
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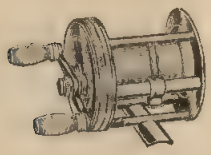
Fresh Water Reels

Bait Casting Reels

Bronson—Coxe—Model 10C



Level Winding Casting Reel

It incorporates the most prominent and fundamental Coxe features such as Coxe cross bolt construction dirt free level winding mechanism feather weight spool, one piece frame construction take-apart features, feather touch adjustable thumb drag and reel click gear shaft oiling and cork spool arbor

Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5509	10-C	100	*$75.50*

One in a box

Bronson—The Coxe

Level Winding With Free Floating Axle

A custom built level winding free spool bait casting reel designed for the discriminating fisherman Special features A new type of level wind construction to furnish complete protection to the level winding mechanism, the famous Coxe cross bolt, live axle design, not only permits quick easy take-apart of the reel for cleaning without need for a screw tool but the free floating action accomplished with the live axle design is one of its amazing anti-backlash action, it is quadruple multiplying with 100 yard capacity aluminum spool having a balsa wood arbor for added lightness. adjustable feather touch thumb drag and click one piece frame construction

Stock No.	Mfr's No.	Cap. Yds.	Fact. List EACH
2V 5510	25-C	100	*$33 00*

One in a box

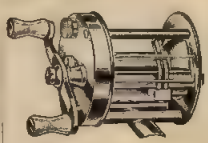
South Bend—Level Wind

Level Wind Anti-Back-Lash

This new reel is chrome plated Has hard brass bearings Gears are spiral type

Stock No.	Mfr's No.	Cap. Yds.	Oz.	Fact. List EACH
2V 5905	300	100	7½	*$7 75*

One in a box



Level Wind Anti-Back-Lash The action of this dependable South Bend anti back lash and level wind reel instantly appeals to the caster The skilful workmanship and high grade materials used in its manufacture assures a high grade reel Tension and adjustable anti-back-lash Quadruple multiplying.

Stock No.	Mfr's No.	Cap. Yds.	Fact. List EACH
2V 5907	450	100	*$20 00*

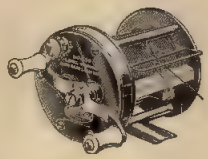
One in a box

Level Wind Anti-Back-Lash

This model built for performance and durability. Frame of solid brass, chrome plated Bearings are of phosphor bronze Hard brass, spiral

Stock No.	Mfr's No.	Cap. Yds.	Oz.	Fact. List EACH
2V 5906	400	100	7½	*$10 00*

One in a box



Level Wind Anti Back-Lash — A good dependable reel carefully made from materials selected primarily for their wearing qualities Level winding and anti-back-lash devices are exactly the same in operation as on finest South Bend reels

Stock No.	Mfr's No.	Cap. Yds.	Fact. List EACH
2V 5908	550	100	*$18 50*

One in a box

Fresh Water Reels
Bait Casting Reels

Bronson—Arrow Jr.

The single-action reel for the beginner just learning to cast. Minimum of parts to wear out. Will last through several seasons. Nickel-plated steel finish.

Stock No.	Mfr's. No.	Cap. Yds.	Oz. Ea.	Fact. List EACH
2V 5498	4400	■	4	$0.60

One in a box.

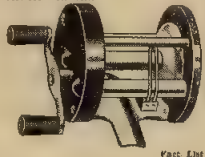
Bronson—Arrow

Sturdy and dependable reel for still-fishing, light trolling or drifting. Nickel-plated steel finish to resist rust and corrosion. Double anti-backlash click and click.

Stock No.	Mfr's. No.	Cap. Yds.	Oz. Ea.	Fact. List EACH
2V 5499	4000	80	5	$1.10

One in a box.

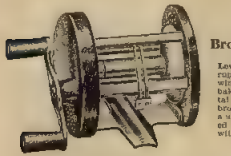
Bronson—Aetna



Sturdily constructed reel with bakelite end plates. Metal parts are brightly nickel plated. Level winding and adjustable click.

Stock No.	Mfr's. No.	Cap. Yds.	Oz. Each	Fact. List EACH
2V 5505	2800	100	5	$2.50

One in a box.

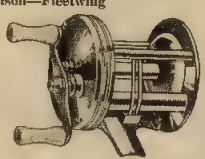


Bronson—Altoona

Level Wind Full quadruple multiplying level winding reel. Walnut bakelite hand cap and tail plate. Phosphor bronze level wind screw and click spring. Finished in nickel plate. Fitted with Duo-Pawl.

Stock No.	Mfr's. No.	Oz. Each	Fact. List EACH
2V 5502	4220	7	$2.95

Bronson—Fleetwing

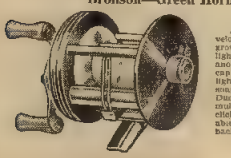


A level winding reel built in accordance with Bronson original 3-piece construction. Chromium plated brass throughout. Unique Bronson adjustable drag eliminates backlash. Duo-pawl. Two spiral and two spur gears. Adjustable click.

Stock No.	Mfr's. No.	Cap. Yds.	Oz. Each	Fact. List EACH
2V 5506	2475	100	6	$4.95

One in a box.

Bronson—Green Hornet



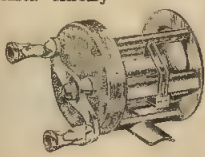
An amazing new development to supply a growing demand for a light weight reel. Gear anodized aluminum head cap and tail plate. New light weight spool with snap-on plastic rubber Duo-pawl. Quadruple multiplying. Adjustable click. Bronson adjustable drag eliminates backlash.

Stock No.	Mfr's. No.	Cap. Yds.	Oz. Each	Fact. List EACH
2V 5504	2200	100	8	$5.95

One in a box.

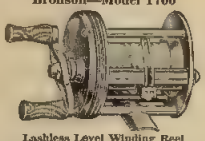
Bronson—Mercury

Level Wind—The leading value of the Bronson line. Constructed of high grade brass throughout. Heavily chromium plated. Head cap, tail plate and the edge of the head cap attractively decorated. Black and white shaped handle grips on a ball bearing crank. Duo-pawl. Adjustable click on tail plate with hardened steel ratchet. Nickel-plated chromium plated level winding screw. Pillared rod clip. Jeweled, adjustable spool caps.



Stock No.	Mfr's. No.	Cap. Yds.	Oz. Each	Fact. List EACH
2V 5503	2550	100	8½	$6.95

Bronson—Model 1700



Lashless Level Winding Reel

A new development in a level winding, bait casting reel that is the answer for an inexpensive reel by bait casters. This reel is equipped with a newly developed spool bearing mechanism that permits highly sensitive anti-backlash adjustment to individual needs and casting techniques. All adjustments to compensate for variations in weights of different lures as well as the style of the angler's cast can be made by simply turning the tail plate spool bearing. When properly adjusted this feature will eliminate thumbing and backlashes. It is constructed of high grade brass throughout, heavily chromium plated, aluminum spool, adjustable click, quadruple multiplying cork fitted arbor.

Stock No.	Mfr's. No.	Fact. List EACH
2V 5507	1700	$7.95

One in a box.

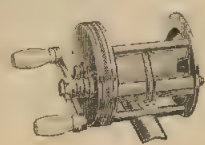
Bronson—Lightweight—Anti-Backlash

New in design and preferred new in lightness of weight, new in responsive casting action. This new Coxe design is noiseless, smooth with special spring, tension spool bearing on tail plates, adjustable to any weight lure. Eliminates all causes for backlash. Has plastic snap-on spool arbor. Quadruple multiplying, with new silent spiral 4 twin gears. Made of aluminum, thoroughly tested. Available in a colorful anodized finish for added eye appeal.

Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5508	95C	100	$9.75

Bronson—Genuine J. A. Coxe

This new Coxe custom-built level winding reel even though only moderately priced, retains most of the exclusive Coxe features. Cross-bolt type construction which allows greater distance in casting with less effort. No tools required to disassemble reel: merely remove cross-bolt and reel falls apart. Beautifully chromium plated. Featherweight aluminum spool. Smooth action thumb drag. Adjustable click. Quadruple multiplying.



Stock No.	Mfr's. No.	Cap. Yds.	Fact. List EACH
2V 5512	60	100	$11.00

One in a box.

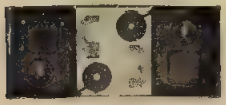
Telephone & Telegraph Sets

Desk Phone Set

Complete telephones, latest modern design. Operate on flashlight batteries. Mechanism fully concealed. Attractively boxed in sets of 2 with 50 feet of wire, ready for operating

Stock No.	Mfr's. No.	lb Doz. Sets	Cat. List SET
4H 8004	211	45	$7 50

Wall Phone



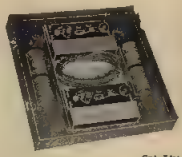
Operates on dry cell batteries. Contents: 2 complete telephones made of heavy gauge steel. Complete with 50 feet of wire

Stock No.	Mfr's. No.	lb Doz. Sets	Cat. List SET
4H 8003	150	26	$4.50

One dozen sets in a carton.

De Luxe Signal Set

Complete with 2 signal sets, each wired for sending and receiving; four Eveready batteries, 50 feet of wire and instructions



Stock No.	Mfr's. No.	Size In	lb Doz.	Cat. List EACH
4H 3002	200	18x9	28	$3 35

One dozen in a carton

Buck Rogers Communication Set

Remco Industries

Buck Rogers 25th Century electronic communications outfit consists of two precision engineered personalized phones in durable plastic cases, 50 feet double electrical wire, an operators certificate, secret dial decoder to keep messages confidential. No batteries or plug-ins necessary to operate set. Powered by the patented Remco e astro-magnetic chassis. Will operate indefinately. Nothing to wear out or replace. Complete in a colored set-up box.

Stock No.	lb Each	Fact. List EACH
4H 3012	1½	$4.00

Thirty-six in a carton

Walkie Talkie

Remco Industries

Electronic Walkie Talkie. A complete two way telephone system. No batteries, no plug in necessary

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 3013	300	1	$5.00

One in a box. 48 in a carton

Radio Telegraph Signal Set

Double set. Has three types of signals—blinker, buzzer, sounder. Messages can be sent or received with this set. Metal case. Miniature Western Union blanks included.

Stock No.	Mfr's. No.	Size In.	lb Doz.	Cat. List EACH
4H 3001	165	11x4	12½	$3.00

Two dozen in a carton.

Kiddy Chest

Remco Industries

The idea, quality gift for play and good habit training. This junior size cabinet contains, J & J Kleenex Tissue, Py-co-pay Toothbrush, Ivory Soap, Ammident Tooth Paste, Dundee Towels, Jr. size tumbler, Jr. soap dish, quality mirror. Display package, Patented mounting.

Stock No.	lb Each	Fact. List EACH
4H 3010	¾	$3.00

Forty eight in a carton.

Tinkertoy

DeLuxe Tinkertoy

The largest and most complete of all Tinkertoy sets. Recommended for those old enough to understand the more elaborate construction. 152 smoothly turned white birch parts, natural finish, 1 metal crank, 2 cotter pins, 8 windblades, one 16 page direction book of models and a trick sheet of stunts and games using various pieces. Packed in 4x13¾ inch laminated fibre can with metal bottom and screw top.

Stock No.	Mfr's. No.	lb Dzn.	Fact. List EACH
4H 3314	Deluxe	34	$2.85

One-half dozen in a carton.

Senior Tinkertoy

Next to the largest of the Tinkertoys. Special parts and a greater number of standard parts enable the operator to construct elaborate stunt and working models without limitation. Windmill drive power. 101 smoothly turned, white birch wood parts, natural finish, 1 metal crank, 2 cotter pins, 8 windblades, direction sheet showing 30 models and a trick sheet of stunts and games using various pieces. Packed in 4x13½ inch laminated fibre container with metal bottom and screw top.

Stock No.	Mfr's. No.	lb Dzn.	Fact. List EACH
4H 3313	Senior	24	$2.35

One dozen in a carton.

Special Tinkertoy

An elaboration of Tinkertoy including the windmill drive which supplies operating power to such model by means of a hand crank. 118 smoothly turned New England white birch parts natural finish, 1 metal crank, 1 cotter pin, 8 windblades, 1 direction sheet showing 40 models and a trick sheet for stunts and games using various pieces. Packed in 3¼x12½ inch laminated fibre container with metal bottom and cap screw.

Stock No.	Mfr's. No.	lb Dzn.	Fact. List EACH
4H 3312	Special	19	$1.79

One dozen in a carton.

Wonder Tinkertoy

The improved original around which all other Tinkertoy sets have been created. 90 smoothly turned New England white birch wood parts, natural finish. 48 wood pieces, 4 windblades and 1 direction sheet showing 30 models. Packed in fibre container 3¼x10 inches with metal bottom and screw top.

Stock No.	Mfr's. No.	lb Dzn.	Fact. List EACH
4H 3311	Wonder	14½	$1.29

One dozen in a carton.

Caps

Perforated Roll Caps

50 loud reports per roll, 5 rolls per box, 60 boxes per carton. Contains lubricant to make pistol work easier last longer. Can use in all repeater pistols.

Stock No.	Mfr's. No.		Cat. List BOX OF 3 DOZEN
4H 2132	150		$3.00

American Ace Roll Caps

500 shots in a 5c package 48 5c packages in a deal

Stock No.	lb Deal		Cat. List DEAL
4H 2119	2		▲$2.40

Twelve deals in a shipping case.

Air Guns

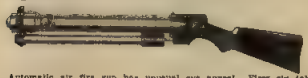
Sub Machine Gun

The Newall air fire sub machine gun is harmless because it uses only ping-pong balls as ammunition. Barrel and ammunition chamber made of heavy aluminum, other parts of plastic, beautifully finished in walnut. Gun can be used indoors or outdoors with perfect safety. Will not break light bulbs, windows, etc. Very sturdy in construction, with nothing to get out of order. One ping-pong ball included with each gun. Packed in individual carton.

Stock No.	Mfr's. No.	lb Ctn.	Fact. List EACH
4H 2120	300	20	[S] $3.00

One dozen in a carton.

Repeater Gun—Automatic—6-Shot—Air Fire



Automatic air fire gun has unusual eye appeal. Fires six table tennis balls with one loading. Stock is reproduction of real gun. Tenite firing grip. Light walnut finish. Barrel and air pump of heavy aluminum.

Stock No.	Mfr's. No.	lb Doz.	Fact. List EACH
4H 2123	500	32	[S] $5.00

One-half dozen in a carton.

Tiny Tot Repeater—3-Shot—Air Fire

Same construction as No. 500 but has shorter barrel. Fires 3 shots automatically. For the little tot who would have trouble carrying the gun with the longer barrel.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 2128	400	2½	$4.00

Six in a carton.

Sparkling Sure Shot Machine Gun

Cohn

All metal gun. Bright 4 color lithography. All edges turned. Equipped with crank handle which, when turned, produces a rat-tat-tat sound and shoots sparks. Overal. size, 9¾x3⅜x4⅝ inches.

Stock No.	Mfr's. No.	lb Doz	Cat. List
4H 2210	77	6	$1.30

Three dozen in a carton.

Clown Target With Magnetic Darts

Darts tipped with harmless magnets which adhere firmly to metal dart board. Safe, efficient, long lasting

Stock No.	Mfr's. No	Size In.	lb Doz.	Cat. List EACH
4H 2568	1288	15½x12½x1½	15	$1.15

One dozen in a carton.

Buck Rogers Sonic Ray Gun

Norton

25th century signal light. See, hear and signal with it. Shoots a powerful piercing ray. Delivers danger-warning high frequency b-e-e, includes mystifying Buck Rogers Morse Code. Sonic ray super details are as follows: Tele-radar sight, neutron release trigger cyclotron chamber, uranium power chamber, fission speed regulators, sonic resonator, fission heat eliminator electronic converter, ray chamber, dura glass ray-filter lateral flush vents.

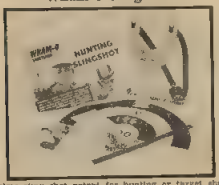
Stock No.	Lgth. In.	lb Doz.	Fact. List EACH
4H 800	7½	10	$2.15

Two dozen in a carton. Uses two 2J4580 batteries.

▲ We do not break deals.

Sling Shots

Wham-O-Sling Shot



Adult size sling shot potent for hunting or target shooting. Solid ash stock, 40 steel balls, extra rubbers and instruction sheet packed in colorful display box

Stock No.	Mfr's. No.	lb Doz.	Fact. List EACH
4H 2138	Wham-O	7	$1.50

One dozen in a box.

Wham-O Replacement Rubbers

Stock No.	Doz. Pr. in Pkg.	Fact. List 100 PAIR
4H 2139	1	▲$25.00

.25 Caliber Wham-O Ammunition

40 steel balls in a package, 12 packages in an envelope.

Stock No.	Fact. List 100 PKGS.
4H 2140	▲$15.00

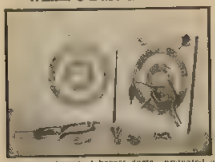
Pouch For Wham-O-Sling Shot

Rubber and leather pouch for Wham-O-Sling Shot.

Stock No.	Mfr's. No.	Oz. Ea.	Fact. List EACH
4H 2135	106	2	$0.55

144 in a box.

Wham-O Dart Game Kit

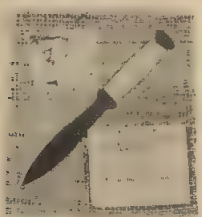


Package contains catapult, 4 barrel darts, animated plastic target.

Stock No.	Mfr's. No.	lb Doren	Fact. List EACH
4H 2148	106	5	$1.50

One dozen in a carton.

Wham-O Malayan Throwing Dagger



A beautiful heavy duty 10-inch blade of fine tempered steel, balanced to stick. Splits a 1-inch board at 30 feet. Designed especially for target throwing.

Stock No.	Mfr's No.	Lgth. Inc.	lb Doren	Fact. List EACH
4H 2149	102	10	24	$1.75

One dozen in a carton.

Keyston

Double Holster Set—With Guns

Tan leather, black overlay, with tan leather decoration, silver studding. Furnished with 2 Hubley Star Guns.

Stock No.	Mfr's. No.	Fact. List EACH
4H 2820	503-1100	$8.00

One dozen in a carton

Double Holster Set—With Guns

Black leather, white overlay, gold studding, gold gun ornaments. Furnished with 2 Hubley Star Guns.

Stock No.	Mfr's. No.	Fact. List EACH
4H 2821	500-1100	$8.00

One dozen in a carton

Double Holster Set—With Guns

Tan leather with black fringe and red bullets. Furnished with two Hubley Star guns.

Stock No.	Mfr's. No.	Fact. List EACH
4H 2823	507-1105	$9.00

One dozen in a carton.

Double Holster Set—With Guns

Double holster, black backing, black overlay, gold studding with white fringe. Now adjustable belt. Furnished with 2 Star Shot Hubley Guns.

Stock No.	Mfr's. No.	Fact. List EACH
4H 2824	513-1108	$4.00

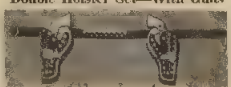
One dozen in a carton.

Double Holster Set—With Guns

Double holster set, brown leather, military style, nickel buckle, red plastic bullets, 2 dure Shot pistols.

Stock No.	Mfr's. No.	Fact. List EACH
4H 2800	523-1108	$4.00

Double Holster Set—With Guns



Double holster set, black leather, silver studded, silver buckle with Texas Jr. guns.

Stock No.	Mfr's. No.	Fact. List EACH
4H 2801	542-1185	$6.00

Double Holster Set—With Guns

Double holster. Large, jewel studded, black and brown holster set with silver bullets and large silver buckle. Furnished with two Texas Junior guns.

Stock No.	Mfr's. No.	Fact. List EACH
4H 2827	528-1165	$8.00

One-half dozen in a carton

Double Holster Set—With Guns

Double holster, tan backing, calfskin front, silver studding, white fringe, extra wide belt with silver buckle, silver ornaments. 2 Hubley Texas Jr. Guns.

Stock No.	Mfr's. No.	Fact. List EACH
4H 2830	574-1165	$9.00

One-half dozen in a carton.

▲We do not break deals or packages.

BUDA LIFTING JACKS

Standard Speed Jacks

Buda Standard Speed Jacks are designed for heavy-duty work of almost any character, such as bridge jobs, construction work, shop work, and handling heavy machinery. They are especially suitable for outdoor and rough usage. All working parts are sturdily built. These jacks are equipped with an automatic locking key, which makes it possible to quickly run the ram, or standard, up to and away from the load without using the lever bar. Jack can be operated in any position and requires comparatively little power to lift load.

Model No.	Cap., Tons	Height, Closed	Rise	Weight, Pounds
122S	15	22″	15″	75
220	25	20″	13″	85
224	25	24″	17″	98
324	35	24″	16″	136
524	50	24″	14″	230
724	75	24″	14″	275

Includes round steel lever bar

Hydraulic Jacks

Buda Hydraulic Jacks are extremely desirable for lifting loads where safe operation, smooth control, and easy lifting are important. These All-Purpose Hydraulic Jacks are built in a wide range of sizes. Hydraulic Hi-Speed Jacks capacities are from 3 to 20 tons. Buda Hydraulic Two-Speed Jacks, 25 to 50-ton capacities. These modern hydraulic models incorporate many exclusive and advanced engineering features which assure superior performance whenever they are used . . . for cars, buses, trucks (as regular equipment), garages, service stations, parts stations, railroad cars, and, in fact, every industry where lifting a heavy load must be efficiently handled.

Model 25-B-10

Send today for complete bulletin on these jacks.

Model Number	Cap. Tons	Height Closed	Hydraulic Lift	Hand Extension	Weight Pounds
3-B.S	3	8⅛″	6⅛″	4″	16
3-10	3	10″	7½″	4″	18
5-B.S	5	8⅛″	6″	3″	21
5-10	5	10″	7½″	4″	24
8-9	8	9″	6¾″	4¼″	26
8-10.5	8	10½″	7¾″	4¾″	28
12-9	12	9″	5¾″	3¼″	36
12-11	*12	11″	7″	None	39
20-B-11	*20	11″	7″	None	50
25-B-8	25	8″	4″	None	42
25-B-10	25	10″	6″	None	48
25-B-22	25	22″	16″	None	103
25-B-28	25	28″	22″	None	125
50-B-12	50	12″	7″	None	120
50-B-26	50	26″	20″	None	200

* These models provided with Swivel Ram Head no extension screw. Includes round steel operating lever bar.

Hydraulic Jack Fluid

½ pint 1 pint 1 quart 1 gallon 5 gallons

Klinch-Klaw Jacks

Buda Model No. 115 Klinch-Klaw Jacks are ratchet trip-type jacks, specially designed for pulling all types of bolts and spikes on trestles and bridges. They are powerful, fast and safe. Bolts are pulled clean and straight thus they can be used again. Jack rack can be lowered below the base of the jack, permitting it to pull bolts on bridges from between the ties. It can also be used for leveling track and for general lifting purposes. Because it will effect economies, save time and make tough jobs easy, every bridge crew should be provided with a Buda Klinch-Klaw. It is the only jack of its kind on the market.

Model	Cap. Tons	Height Closed	Overall Rise of Rack Bar	Extension of Rack Bar Below Base	Weight, Lbs.
225-A	15	30⅜″	22″	9⅛″	44

Includes jack, complete with bolt puller and wedge.

Trench Braces

Buda Trench Braces are a simple type of screw jack, operated by merely turning the long wing nut to lengthen and shorten the brace. Buda Trench Braces are well constructed and simple in operation. They have been used for years in all types of construction and maintenance work, for supporting the sides of trenches and ditches. They are available in all standard sizes, as shown by the table below:

Pipe and Screw Diam.	Lgth. of Screw	Lgth. of Brace, Closed	Lgth. of Brace, Open	Lgth. of Pipe	Safe Extension of Screw	Wt. Lbs., per Doz.
1¼″	10″	16″	22″	8½″	6″	190
1½″	12″	18″	25″	10½″	7″	198
1½″	14″	21″	30″	13½″	9″	215
1½″	14″	24″	33″	16½″	9″	224
1½″	16″	27″	37″	19½″	10″	240
1½″	16″	30″	40″	22½″	10″	246
1½″	18″	36″	47″	28½″	11″	270
1½″	18″	42″	53″	34½″	11″	285
1½″	18″	48″	58″	40½″	10″	300
2″	18″	36″	46″	26″	10″	517
2″	18″	42″	52″	32″	10″	538
2″	18″	48″	58″	38″	10″	560
2″	18″	54″	64″	44″	10″	590
2″	18″	60″	70″	50″	10″	604

Telescopic Screw Jacks

(With Ratchet Lever)

Buda Telescopic Screw Jacks are useful for doing any lifting work within their capacities where low height jacks with a high rise are required. They are built for heavy-duty work and are available in 10 and 25-ton capacities. All are provided with a ratchet lever, making for easier lifting.

BUDA RAILROAD EQUIPMENT

Universal Diesel Nozzle Tester

The Buda Hydraulic Diesel Nozzle Tester is a portable precision instrument for testing all makes of Diesel engine injectors and nozzles. Portable and easy to use, the Buda Universal Nozzle Tester can be used right on the job without costly "down-time" delays. These portable testing units are equipped with all-metal carrying cases. These cases are provided with slides and drawers for quick, compact storage of tester and accessories.

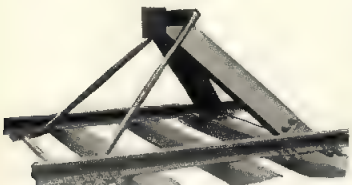
This versatile tool may also be used for testing valves, castings, hydraulic controls, brakes, radial gasoline injectors, presses, etc.

These testers are rigidly built and made to stand the roughest service. They are made in a variety of sets that make possible the accurate testing of the nozzles or injectors used on any or all of the following makes of engines:

Alco
Alco-Sulzer
Allis-Chalmers
Anderson
Atlas-Imperial
Baldwin
Buckeye
Buda
Busch-Sulzer
Caterpillar
Chicago Pneumatic
Chrysler
Clark
Cooper-Bessemer
Cummins
Dodge
Electromotive
Fairbanks-Morse
Fulton
General Machine
General Motors
Gray Marine
Guiberson
Hamilton
Hercules
Hill
Ingersoll-Rand
International
Joshua-Hendy
Kahlenberg
Kermath
Lathrop
Lister-Blackstone
Lorimer
Mack
Nordberg
Palmer
Rathbun-Jones
Redwing
Sheppard
Sterling
Superior
Union
United States
Venn-Severin
Washington
Waukesha
Witte
Wolverine
Worthington

Buda Universal Diesel Nozzle Testers are economical to buy, easy to use.

Bumping Posts

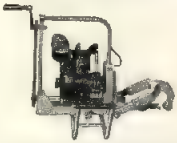


Buda All Steel Bumping Posts are made in a number of standard types to meet the requirements of various types of service. Buda No. 30 clamp type bumping post is outstanding. It is as strong as the rail to which it is connected, therefore practically indestructible. The cost of installation of this post is less than half of any other post. No excavating or drilling of holes is necessary

Track Drills

Buda HyDuty Paulus Track Drills for drilling holes in "T" rail, girder rail or I-Beams. Drills are available with any one of four different styles of rail hooks. The frames are made of high strength, special alloy, malleable iron and are extra heavy throughout. Bearings are bronze bush. Gears and pinions are of forged steel, with machine-cut teeth. Handles are adjustable for use of various sized lifts and variable speeds.

Power Track Drill



Buda Power Track Drill is a carefully built machine for faster and easier drilling of bolt holes in any weight rails. Only one man is needed to start, operate and release the drill from the track. Drill is fast one man merely controlling the drill can drill the same diameter hole in less than 30 seconds that it would take two men with a manual type drill to do in 20 to 30 minutes. Drill can be used between narrow rail sections when necessary to drill at switches. It is a rugged and well-built all-weather tool. It is the lightest and most compact power track drill on the market today.

Jack Type Rail Bender

Buda Model No. 130 Rail Bender is simply constructed and easy to attach to the rail. It is distinctly different and far superior to any other bender ever produced. It consists of a steel hook, one end fitting over the ball of the rail and the other end bearing on the cap of the jack. The base of the jack is even against the side of the rail. With the hooks very firmly holding the section of the rail, the force applied to the jack by power on the lever bar bends the rail. It can be hand-operated by one man and will bend 151 pound rail cold

Car Stops

Buda Car Stops are built of high grade malleable iron for use as portable stops where heavier bumping posts are not required. These stops take up only a small amount of track space. They can be quickly installed in a few minutes' time, using only a wrench. They grip the rail in such a manner that they work equally well on new or badly worn rails. When ordering car stops be sure to specify weight and section of rail.

Prices Subject to Change Without Notice

Other Buda Railroad and Industrial Products Include:

Bonding Drills
Crossing Gates
Fork Lift Trucks
Switches and Crossings
Lifting Jacks
Diesel Electric Generator Sets
Replacers (Wrecking Frogs)
Industrial Shop Trucks
Track Liners
Track Jacks
Industrial Tractors
Earth Drills

Write for Literature on the Products in which you are interested.

151-3-50

BUDDY 'L'

America's Finest Playthings

Many Brand New

STEEL TOYS

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Fifth Avenue Bldg.

Sole Sales Representatives
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ROOM 540
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NEW YORK 10, N. Y.

BUDDY "L" TOYS
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BUDDY 'L'

America's Finest Playthings

Navy

Brand New

STEEL TOYS

Room 540

Fifth Avenue Bldg.

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The Low-Cost Answer To All Small Boat Owner's Radiophone

ANTENNA

and Marine Mounting

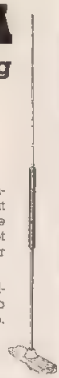
For 2 and 3 mc.

PREMAX

Premax Series B Marine Radiators will increase effective power five times over that radiated by a straight whip. The 2-foot base section, 18-inch center-loaded coil and 6-foot whip (9½ feet overall) resonate at the center of the 2-3 mc. band.

The whip is stainless steel, the coil glyptol-coated and the base is aluminum alloy. Two types of ceramic insulators are available. Type V is shown at the right.

Ask your jobber or marine store, or send for special bulletin.



PREMAX PRODUCTS

DIVISION CHISHOLM-RYDER CO., INC.

5106 HIGHLAND AVENUE NIAGARA FALLS, N. Y.

Get a Thompson BOAT

GET SPEED Amazed by skill and experience in fast boat designing.

GET SAFETY Thompson Boats are exceptionally seaworthy; plane easily.

KEEP DRY Thompson provides Spray Rail protection.

SAVE MONEY Two big factories lower costs save you freight.

Catalog FREE! Save Money! (17E)

" Please state kind of boat you are interested in

"Take-Along" on Your Car

Either of these new Thompson Models

TA-237 for Outboards up to 3 H. P.

TA-248—for Outboards up to 5 H. P.

Also Boat Carrier for attaching quickly to top of car

THOMPSON BROS. BOAT MFG. CO.

Two Large Factories Write to Either Place

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210 Elm St., CORTLAND, N. Y.

Thompson

THE GREATEST NAME IN OUTBOARD BOATS

NORTHILL ANCHORS

3 to 105 lbs. for boats to 60 ft.
SAFE . . . they hold fast in any blow
EASY . . . to break out. Can't bury themselves
LIGHT WEIGHT . . . easy to handle and stow

NORTHILL COMPANY, INC., LOS ANGELES 45, CALIFORNIA • Subsidiary of THE GARRETT CORP.

manila throughout, the bolting about the canvas section of the drogue will be hard-laid impregnated stuff while the tow line should be of 1½ to 1¾-inch diameter soft laid manila

Cutting the Cloth

Now look at Figure 8. Four cloths will be cut from the canvas bolt so as to measure not less than 17 inches between the bases of the roping hems at the mouth of the drogue. To do this and to produce the roping "handle" to which the drogue roping around the canvas cone will be stitched you must allow an additional width of material along the sides of your pieces of about 1¼ inches. Thus the size of each of the four tapered pieces of canvas for the mouth end of the drogue will be cut to a dimension of 20½ inches.

The size of the discharge vent at the drogue's apex (in consideration of the overall dimensions of the particular drogue we are constructing) should be not more than 2 inches in diameter It will be found that this vent, in its completed form, will be square instead of round—this makes no difference in the performance. At the small end of the taper we shall therefore cut our pieces of canvas to a width of about 5½ inches which width should insure ample material for a 2-inch vent with a turned hem on each side of the section plus a ¾-inch facing bar for securing drogue ropes at each of the four joined sections of canvas.

Now as to the proper length to cut the sections of cloth, we start with a finished cone length of about 52 inches; to this must be added sufficient material to form a 3-inch hem both at the mouth of the drogue and at the inner periphery of the discharge vent for we must again get the double of the material at the points of greatest stram when the drogue is set and pulling. This should add, therefore, about 7½ inches to the projected length of the drogue canvas that will hang, in profile aspect, between the four drogue ropes and produces a total cut length of about 60 inches for each of the four pieces

After the hems are run up and stitched on the sides of the tapered sections and the canvas facing bars are stitched together at the top and bottom of what now appears to be a heavy vertical canvas seam lying laterally along the length of the canvas-work to which we shall later lay-stitch the drogue roping, the mouth hem should be turned and double-stitched. So, too, the cone or discharge vent end should be finished

We must now construct a canvas headband, 3 inches in vertical depth, or with a ½-inch hem turned under it in the way of the stitching at the top and bottom of the band where it is installed flush with the joined canvas sections that now form the drogue canvas mouth

Roping the Drogue

The finished canvas section of the drogue is now ready to be roped. Cut off about 40 feet of 1½ or 1⅝-inch diameter hard-laid impregnated manila, whichever you are using, and bring the two ends of the line together, marrying them in about a 14-inch long splice. To keep the roping of symmetrical proportions, if you desire a real finished job, you can rat-tail the ends of your splicing. After you have run up your long splice, install your cringles through one end of the heavy swivels, compressing them tightly together, and lay off the marred 1½ or 1⅝-inch manila into four equal bights. Hang the double bights now in some convenient place where the cringles can be seized into both ends of the bights as shown in the illustration. Install the galvanized thimbles for both tow and trip lines and run the eye-splices around the thimbles for both of these members of the assembly. The bights of the drogue roping should now be spread and the canvas section which has been previously completed should be hung on about the centers indicated in the illustration

The stitching of the canvas cone to the drogue roping can now be started. In doing this it is well to spread two of the drogue ropes and temporarily tack two corners of the drogue mouth each to its respective rope lead and then start stitching the ropes to the canvas facing bar or tabling that was employed. This, of course, must be done on one rope lead at a time. All of the rope stitching is run through the lay of the 1½ or 1⅝-inch diameter manila except where the drogue roping leaves the canvas at both the mouth and cone ends. Here 8 or 10 turns of round stitching are run through the tabling and roping for about 1½ inches inboard of the end of the cone and the end of the mouth, at which points several round stitches are run completely around the roping and back through the canvas tabling before they are seized off. The operation is similarly performed about the three remaining lead ropes.

When the four ropes are entirely secured, brass grommets are

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THE DROGUE—SYMBOL OF AN ANCIENT ART

(*Continued from page 43*)

lapsible directional flow type drogue used by the old drogue-man Generally speaking the later designed, semi-displacement, high-powered motor boat with its great agility in heavy breakers is inclined to lean towards the use of the Hawthorne drogue, where sea conditions are suited to its use. Rapidity of action and ease of operation follow as a result of the excellence of its performance on short tow lines

As originally designed and used by the old surfmen the canvas drogue of the directional type (still the master in long breakers) had no metallic head ring Perhaps some later expert in prostitution of the purpose of the old veteran of a thousand inlet battles attempted to combine its great resistance to motion when set in breakers with the alien purposes for which a sea-anchor should be used If this be true, the confused result of his perfidy was an extremely weak and temperamental drogue and a sea-anchor of dubious ability to reach neutral flotation at efficient depth Sea-anchors, too, are another story, and few motor boats take to them kindly at sea in a gale without protest. Sufficient it is to say here that it is nearly an impossibility to buy an efficient sea-anchor for your boat If you expect it to be effective in an emergency, it should be custom made to your own individual requirements

Figure 6 is a sketch of a typical "store boughten" contraption that is usually loosely dubbed either a drogue or sea anchor. Actually it is neither In general shape and theory of design it resembles somewhat the basic characteristics of the canvas, rope bound directional drogue but it has few of the elements of the fixed construction of that drogue

Construction Must Be Strong

Figure 7(a) demonstrates graphically a directional drogue that has been set and is pulling. Figure 7(b) shows the form of the drogue after it has been dumped and is being towed by the trip-line but ready for the next set upon the release of the trip. It will be noted that the entire braking strain aft of the headring of the commercially purchased device is taken by the canvas cone, stitched at the seams and secured to the metallic headring usually with heavy marlin or nine thread. It is a matter of doubt that any such contrivance when set in heavy breakers from the stern will stand the instantaneous strain imposed on the canvas pouch by the jerking gyrations of a heavy boat out ahead of it in boisterous breaking seas. The grommets forced through the headband of the canvas cone seem to be the weakest link of attachment and the stitching at the seams, triple-stitched though they may be, are no paragon of strength where a directional drogue has been known to part a ⅝-inch diameter line on a 40-foot motor boat The breaking strain of the best ⅝-inch diameter manila is 6,160 pounds. The shearing strength of a triple stitched seam 55 inches in length through number 4 canvas is roughly something less than 1,000 pounds

Canvas directional flow type drogues are constructed of four equal and identical pieces of heavy material cut from a canvas bolt These pieces of canvas are hemmed lengthways along the edges of the tapered sections of both sides of the material and the depth of the hem or tabling is controlled by the size of the manila with which the drogue is to be roped When all four pieces of tapered cut canvas are brought together after hemming they are now joined by stitching them together lengthways about ¼ inch below the hem stitching. This forms a stiff canvas facing of a depth of about ¾ inch (where 1¼ to 1½-inch diameter drogue roping is to be used) but the facing must now be stitched along its top edge to complete the canvas "handle" that will join the drogue roping to the canvas bag Apex end of this bag will be open through a diameter of 1 to 2 inches, depending on the size of craft aboard which it will be used. This is the strongest known manner of welding the drogue roping to the canvas section of the contrivance The method has been in use since the value of the drogue in heavy long breakers, was first discovered

Concerning the correct manner of roping the drogue, let us take now the construction of a drogue of the directional flow type for a specific type and size of motor boat, a full displacement type of about 12 tons, 42 to 45 feet in length. The canvas we shall use will be pretty heavy stuff. See table at end of this article for suggested weight of material. Don't try to use anything lighter than suggested If you do, the canvas section of your drogue will leave the headband faster than a rotten staysail will blow out of its boltropes in a squall The drogue rode and roping will be 1½ inch diameter

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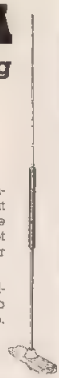

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manila throughout, the bolting about the canvas section of the drogue will be hard-laid impregnated stuff while the tow line should be of 1½ to 1¾-inch diameter soft laid manila

Cutting the Cloth

Now look at Figure 8. Four cloths will be cut from the canvas bolt so as to measure not less than 17 inches between the bases of the roping hems at the mouth of the drogue. To do this and to produce the roping "handle" to which the drogue roping around the canvas cone will be stitched you must allow an additional width of material along the sides of your pieces of about 1¼ inches. Thus the size of each of the four tapered pieces of canvas for the mouth end of the drogue will be cut to a dimension of 20½ inches.

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When the four ropes are entirely secured, brass grommets are

buoyancy. And she will pound and bury her bow in the seas and sling the water back over her crew.

The form shown in 6-B will lack initial stability. Her slack bilges allow no bearing and she will be quick and tender (sensitive) with the shifting of minor weights badly affecting her trim. I know of a motor boat with sections much like those in 6-B and it is constantly on the market, having been bought for a "song" by one unsuspecting soul after another. Well built, to the highest standards, particularly attractive, but of absolutely no comfort!

Round sections with the form somewhat close to section 6-C will prove as fine a seaboat as it is possible to have. Not a real fast boat, mind you, for the deadrise would have to decrease in the after sections to prevent the stern from settling, but for a modestly powered boat obtaining relatively fair speeds up to 16 miles an hour, such a form is hard to beat. The flare and flam on the topsides, combined with fine waterlines forward, will ease her down in a head sea in fine style! There will be no pounding and no sudden taking up—rather she will gradually gain displacement from her flare. With the stern sections balancing the forward ones there will be pleasing results. There is sufficient firmness on the turn of the bilge to give wholesome stability. All in all, a fine form.

Lack of Equipment Is Troublesome

The problems of building round bilge boats, by amateurs, must be given full consideration. I feel the advocates of V bottom boats somewhat misconstrue the *utter* simplicity of their construction—there is nothing simple about building any type of boat. The most serious obstacle standing in the way of the average amateur builder is his lack of suitable equipment. Considering that he is planning to build only one boat, the investment and time spent in building a steam box, securing suitable green bending oak, making the necessary moulds over which to build the boat, and obtaining stock for the essential ribbands (long battens of suitable sectional dimensions which run from stem to stern to fair the boat and which the steam-bent frames are bent inside of, or over, as the case may be) must all enter the picture. Neither the forms nor the ribbands remain in the final construction but are taken out after the boat is framed and planked.

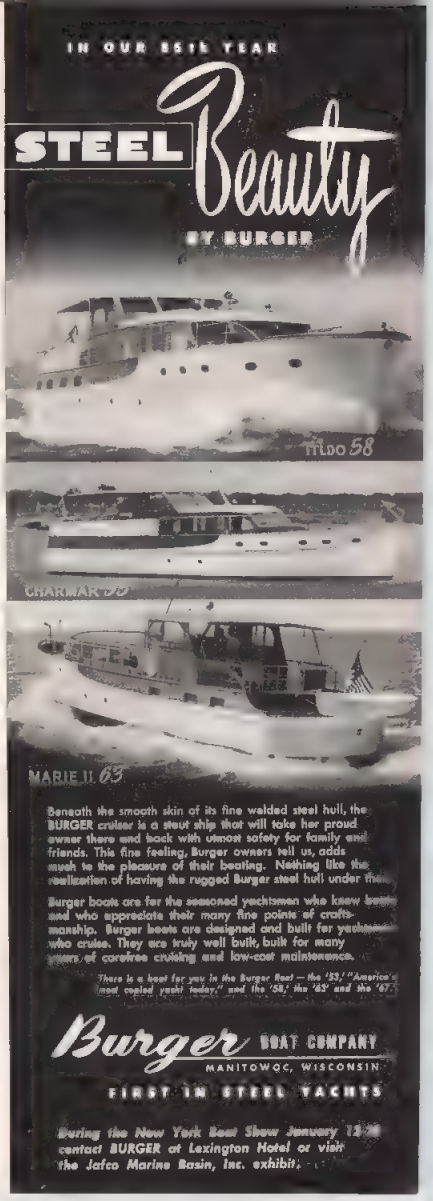
The one big advantage, as far as building goes, of the round bilge boat is the absence of the troublesome chine. And this chine, rabbeted or otherwise, must be particularly well fitted and fastened or else leaking is likely.

I mentioned briefly that round bilge boats are much simpler and easier for the professional builder who is turning out standardized boats, or even special boats of approximately the same size and model. He uses his moulds again and again. He knows how to select frame stock and how to steam it. As there are no sawn frames the round bilge boat needs fewer knees and parts. The chine gussets are eliminated and the necessary beveling of all the frames. Records accurately kept on labor costs on the framing and planking of runabouts with the highest grade V bottom construction showed an increase of 30 to 40 per cent over that of the round bilge boat of the same size and equivalent workmanship. Again, there enters the question of complication of design and construction, for down on Chesapeake Bay the local builders of V bottom boats use a method of construction which would contradict the above figures. Their heavily constructed boats, built without bottom frames, are the utmost in simplicity.

A round bilge boat is unquestionably stronger for a given frame and planking size than either of the other two forms. While seams on a V bottom hull will have a tendency to open up as pressure is exerted, as I have written, the pressure on a round bilge boat is like pressure on the outside of a barrel. It forces the planks together more tightly and closes the seams. Even with light construction a round bilge boat can be made tight by caulking. I know of runabouts having planking a little less than ¾-inch thick, laid on frames spaced fairly close, which stayed perfectly tight for years under strenuous conditions. If this were attempted on a V form the opening up of the seams would quickly force the caulking out.

Steam-bent frames, properly let into the keel member and fitted at the deck edge, with a shelf and clamp, permit a tremendously strong type of construction. Nothing short of landing on a rocky shore and puncturing the planking will cause a hull of such construction serious damage.

Seaworthiness, which is the ability to weather a heavy sea in safety, is again rather a problem which must be solved for each individual boat—not an inherent quality of either type, necessarily.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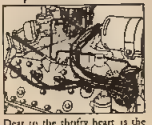
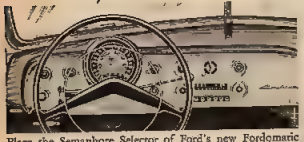


Dear to the thrifty heart is the Automatic Mileage Maker. It matches tuning to fuel charges—not a drop of gas is wasted!

YES for performance!



Place the Semaphore Selector of Ford's new Fordomatic Drive at Dr (drive), and your take-off is instant-quick and liquid-smooth! It's the newest, it's the most flexible automatic transmission in the industry!

You get high-compression performance on regular gas! New Waterproof Ignition System prevents "shorts" due to moisture!

YES for comfort!

You can sit back and relax in the new Ford Luxury Lounge Interiors! Every mile is a smooth mile because of Ford's new Automatic Ride Control!

YES for safety!

Ford's all-steel body is a Luxury Life-guard Body! And the brakes are King-Size, double-sealed against the weather!

The '51 Ford is designed and built not just for this year and next, but for the years ahead. Your Ford Dealer invites you to "Test Drive" it today. Get to know the 43 "Look Ahead" features—the many other Ford advantages—which make it the one fine car in the low-price field.

*Optional at extra cost

'51 FORD

You can pay more but you can't buy better

Inside and out...

Kaiser's the car!

1951 Kaiser De Luxe 2-Door Sedan. One of 6 body styles, 12 models. Hydra-Matic drive available in all models at extra cost.

1951 Kaiser... the only car with Anatomic Design!

1951 Kaiser sedan wins world's highest honor Grand Prix d'Honneur Cannes, France

America's most beautiful car is just as lovely to *ride* in as it is to *look* at! Room aplenty for six *big* people to sit comfortably...head room enough for the tallest to sit up straight...leg room that lets *everyone* stretch out and relax —in your new 1951 Kaiser!

And *look* with new *Control-Tower Vision* you have the largest windshield and window area in any 6-passenger car...one of the *many* exclusive features of Kaiser's Anatomic Design!

New *High Bridge Doors*, extending up into the roof, let you walk in and out without knocking off your hat. Kaiser's new *Safety-Cushion Padded Instrument Panel* guards against the hazards of sudden stops. The smooth and *thrifty* power of Kaiser's new Supersonic Engine saves you money every mile!

These features make the 1951 Kaiser the newest car on the road! A demonstration at your Kaiser-Frazer dealer's will prove it's the *ideal* car for you!

Built to Better the Best on the Road!

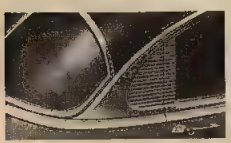
©1951 KAISER-FRAZER SALES CORPORATION, WILLOW RUN, MICHIGAN

NEW!

OLDSMOBILE "HOLIDAY" SEDAN

*Standard equipment, accessories, and trim illustrated are subject to change without notice. *Oldsmobile Hydra-Matic Drive optional at extra cost.*

A GENERAL MOTORS VALUE



Above, distinctive new "Holiday-type" rear quarter window treatment

1951 "ROCKET" OLDSMOBILE "98"

"ROCKET 98"—a *great* new Oldsmobile! A *magnificent* new Oldsmobile! The most *luxurious* new Oldsmobile ever built! *"ROCKET 98"*—now on display in Oldsmobile dealers' showrooms everywhere! Four ultra-modern models—the De Luxe Holiday Sedan above, the De Luxe Holiday Coupé, the Holiday Coupé, the De Luxe Convertible Coupé! Four smooth, *smooth* new Oldsmobile Hydra-Matic* cars! Four great new gas-saving "Rocket" Engine stars—with a superb new "Rocket Ride"! And they all feature new roominess inside—new distinction and glamor throughout! See your Oldsmobile dealer—meet the new flagship of the "Rocket" fleet *OLDSMOBILE "98" FOR 1951!*

METAL TOYS

P. C. Castelli Co. ERIE AVENUE & F STREET, PHILADELPHIA 34, PA.

UVENILE FURNITURE • WHEEL GOODS • METAL DOLL TOYS

ST COAST
emann, Seabrey Company, Inc.
ew York City

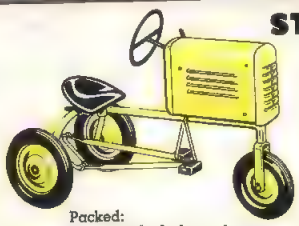
MIDWESTERN STATES
W. & A. Krenzien, Chicago
and Omaha, Nebraska

CENTRAL AND SOUTHWESTERN STATES
Levy & Fryer, 200 Fifth Avenue
New York City

WEST COAST
Standard Toy Agencies
San Francisco, California

Castelli Durable Wheel Goods
Road tested and improved models

STANDARD TRACTOR (600)



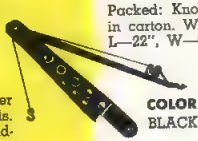
Packed:
Semi-knocked down in one carton. Shipping weight: 24 lbs. L—37", W—19", H—26"

Radical improvements on earlier models give these new 1951 Tractors longer life . . . trouble-free operation. Sturdily constructed of heavy gauge steel. Easy to operate by three-year-olds and up.

COLOR: Bright Yellow

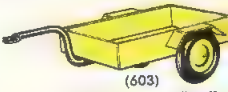
TRAILER & DERRICK ATTACHMENTS (602 & 603)

Attachments can be used on either Standard or Super Tractor models. Easy to attach. Worth hours of added interest and fun for youngsters.



(602)
Packed: Knocked-down in carton. Wt.: 3½ lbs. L—22", W—6", H—18"

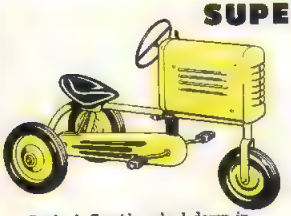
COLOR
BLACK



(603)
Packed: Set up. Handle and wheels disassembled. Weight: 14 lbs. L—35", W—16", H—9"

COLOR
BRIGHT YELLOW

SUPER TRACTOR (601)



Packed: Semi-knocked down in one carton. Weight: 27 lbs. L—37", W—19", H—26"

Two-to-one gear ratio with powerful chain drive. Favorite of older boys ages 5 and 6. Same basic construction as Standard model with important improvements in design.

COLOR: Bright Yellow

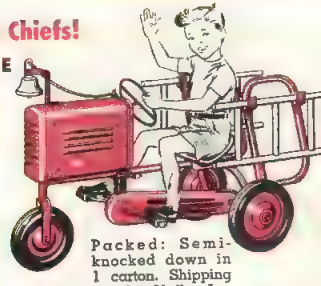
ATTENTION! . . . Junior Fire Chiefs!

FIRECYCLE WITH STANDARD DRIVE (604)

A terrific vehicle for chasin' play fires. Real fireman's bell, wood ladders, semi-pneumatic tires. Sturdily constructed of heavy gauge steel.

Packed: Knocked-down in one carton.

Weight: 28 lbs. L—42", W—19", H—28"



FIRECYCLE WITH CHAIN DRIVE (605)

Real chain drive hook and ladder of same basic construction as 604. Fire bell, wood ladders, semi-pneumatic tires. Easy to operate.

COLOR: Bright Red

Packed: Semi-knocked down in 1 carton. Shipping weight: 31 lbs. L—42", W—19", H—28"

METAL TOYS

P. C. Castelli Co. 1811 AVENUE & I STREET, PHILADELPHIA 24, PA.

JUVENILE FURNITURE • WHEEL GOODS • METAL DOLL TOYS

AST COAST
liemann, Seabrey Company, Inc.
New York City

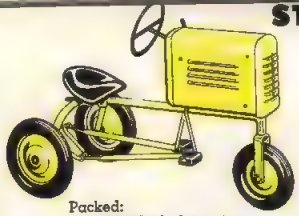
MIDWESTERN STATES
W. & A. Krenzien, Chicago, I
and Omaha, Nebraska

WEST COAST
Standard Toy Agencies
San Francisco, California

CENTRAL AND SOUTHWESTERN STATES
Levy & Fryer, 200 Fifth Avenue
New York City

Castelli Durable Wheel Goods
Road tested and improved models

STANDARD TRACTOR (600)



Packed:
Semi-knocked down in one carton. Shipping weight: 24 lbs. L—37", W—19", H—26"

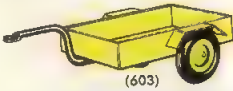
Radical improvements on earlier models give these new 1951 Tractors longer life . . . trouble-free operation. Sturdily constructed of heavy gauge steel. Easy to operate by three-year-olds and up.

COLOR: Bright Yellow

TRAILER & DERRICK ATTACHMENTS (602 & 603)

(602)
Packed: Knocked-down in carton. Wt.: 3½ lbs. L—22", W—6", H—18"

COLOR
BLACK

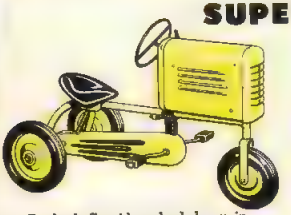


(603)
Packed: Set up. Handle and wheels disassembled. Weight: 14 lbs. L—35", W—16", H—9"

Attachments can be used on either Standard or Super Tractor models. Easy to attach. Worth hours of added interest and fun for youngsters.

COLOR
BRIGHT YELLOW

SUPER TRACTOR (601)



Packed: Semi-knocked down in one carton. Weight: 27 lbs. L—37", W—19", H—26"

Two-to-one gear ratio with powerful chain drive. Favorite of older boys ages 5 and 6. Same basic construction as Standard model with important improvements in design.

COLOR: Bright Yellow

ATTENTION! . . . Junior Fire Chiefs!

FIRECYCLE WITH STANDARD DRIVE (604)

A terrific vehicle for chasin' play fires. Real fireman's bell, wood ladders, semi-pneumatic tires. Sturdily constructed of heavy gauge steel.

Packed: Knocked-down in one carton. Weight: 28 lbs. L—42", W—19", H—28"

FIRECYCLE WITH CHAIN DRIVE (605)

Real chain drive hook and ladder of same basic construction as 604. Fire bell, wood ladders, semi-pneumatic tires. Easy to operate.

Packed: Semi-knocked down in 1 carton. Shipping weight: 31 lbs. L—42", W—19", H—28"

COLOR: Bright Red

FRED ARBOGAST LURES

Here is the famous jitterbug bait. A sure bass getter. Floats when at rest, and when retrieved makes plenty of noise and surface wobble. Wt. ⅝ ounce. 6 assorted colors to a carton.

No. 18R147. Per ozen... . . 8.82

Hula Dancer A deep running bait with pliable rubber tail, weight ⅝ ounce. ½ dozen assorted colors to a carton

No. 18R157. Per dozen 8.82

Hawaiian Wiggler No. 1. A deep running lure with single spinner. Ideal for fishing in weeds. Complete with rubber skirt. ½ dozen assorted colors in carton

No. 18R148. Per dozen.....8.12

Hawaiian Wiggler No. 2. Designed for shallow fishing. This lure works just below the surface. Complete with rubber skirt. ½ dozen in carton.

No. 18R149. Per dozen... .....8.12

Hawaiian Wiggler No. 3. Designed for fishing in heavily weeded areas or lily pads. Ideal for bass and pickerel ½ dozen assorted colors in carton.

No. 18R150. Per dozen.....8.12

Hawaiian Spatterfuss. A noisy fast surface bait. Is sure to provide plenty of fish. ½ dozen assorted colors in carton.

No. 18R158. Per dozen.....8.12

TRUE TEMPER LURES

Fred Arbogast's Rubber Hula Skirts. Gives added action to any lure. Attached regular style, it makes a slender, crippled minnow bait. Attached backwards, it makes a short, wide lure with violent action. Assorted colors. Packed one dozen

No. 18R160. Small size (20 tails) Per doz. 1.20
No. 18R159. Large size (40 tails). Per doz. 1.96

Quick Change Hula Skirt. Snap attachment with small skirt, to fit all makes of treble hook lures. Assorted colors. Packed one dozen

No. 18R156. Per dozen.....1.76

True Temper Crippled Shad. Designed for surface feeding fish. When retrieved slowly or rapidly, it has perfect wounded minnow action. Finished in six colors

No. 18R72.	Shad finish Per dozen.....	8.82
No. 18R72/1.	Chub finish Per dozen.....	8.82
No. 18R72/2.	Perch finish Per dozen....	8.82
No. 18R72/3.	Pearl finish Per dozen.....	8.82
No. 18R72/4.	White and Red. Per dozen..	8.82
No. 18R72/5.	Black and White Per dozen	8.82

True Temper Speed Shad. An underwater bait that goes down where the fish are. Depth is controlled by speed of retrieve. Fast, snappy action. Finished in six colors

No. 18R71.	Shad finish. Per dozen....	8.82
No. 18R71/1.	Chub finish. Per dozen....	8.82
No. 18R71/2.	Perch finish Per dozen ..	8.82
No. 18R71/3.	Pearl finish Per dozen....	8.82
No. 18R71/4.	White and Red. Per dozen.	8.82
No. 18R71/5.	Black and White. Per dozen	8.82

True Temper Dixie Wiggler. Carefully designed with weed free action. This bait casts like a bullet and rides through the water with hook in upright position. ½ dozen in display carton Assorted colors.

No. 18R75/13. ⅜ oz., 3/0 hook. Per doz. 8.82
No. 18R75/14. ½ oz., 1/0 hook. Per doz. 8.82

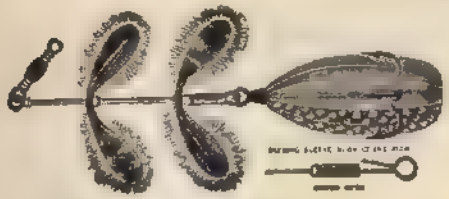
True Temper Shimmy Wiggler. The improved Shimmy Wiggler ranks tops as a cast lure. Improved weed free action. Equipped with new pattern bucktail. Packed ½ dozen assorted colors in display carton

No. 18R74/5. ⅝ oz., 3/0 hook. Per dozen...8.82
No. 18R74/6. ½ oz., 1/0 hook Per dozen...8.82

True Temper Oriental Wiggler. A favorite for muskies, pike, large and small mouth bass. Body made of tenite, finished in red and white. Packed ½ dozen in display carton

No. 18R73/3. ⅝ oz., 3/0 hook. Per doz....8.82
No. 18R73/4. ½ oz., 1/0 hook Per doz....8.82

PFLUEGER AND SHANNON SPINNERS



Pflueger Luminous Tandem Spinner. Popular lure for every type of fishing. Spinners glow in water. Mounted with long shank bright treble hooks, with improved sliding sleeve hook connection. Gay colored water fowl feather. Packed one dozen.

No. 18R107. Size 2/0. Per dozen.....5.29
No. 18R108. Size 1/0. Per dozen.....6.35

Bucktail Shannon Twin Spinner. Popular game fish lure, weedless and snagless. Extremely attractive and a positive hooker. Dressed on 4/0 hollow point Special Sneck Hook, with No. 2½ spoons. Assorted colors. Packed one dozen

No. 18R238. Per dozen.....8.82

Jointed Shannon Twin Spinner. Streamlined and jointed for minnow action; weighted and balanced for easy casting and upright riding. Assorted color bucktails. Packed one dozen.

No. 18R239. Per dozen.....8.82

CASTING LURES

Shakespeare Dopey. Below surface lure with body 1¾" wt. 4/10 ounce. Weedless treble hooks.

No.		Per doz.
18R44/GP.	Green Perch	7.76
18R44/WR.	White & Red	7.76
18R44/BRI.	Black & White	7.76
18R44/SF.	Shiner Finish	7.76

Shakespeare Grumpy. Deep running lure with real fish getting attraction wood body 1⅝", wt. 4/10 ounce.

No.		Per doz.
18R45/F	Frog	7.76
18R45/S.	Spotted	7.76
18R45/WR.	White & Red	7.76
18R45/YP.	Yellow Perch	7.76

Shakespeare Junior Swimming Mouse. Medium size surface lure, wood body, 2¼" with ¼ ounce.

No.		Per doz.
18R46/B.	Black	7.76
18R46/BW.	Black & White	7.76
18R46/LG.	Light Gray	7.76
18R46/WR.	White & Red	7.76

Shakespeare Midget Spinner. Under water spinner action, wood body 1⅞", wt. ⅜ oz.

No.		Per doz.
18R47/GP.	Green Perch	7.76
18R47/WR.	White & Red	7.76

South Bend Babe-Oreno. A small size bass-oreno weighing ½ oz. perfect for use with the popular light action rods. Has that irresistibly alluring bass-oreno action. Length 2⅝ inches. Two No. 1 treble hooks.

No.		Per doz.
18R78/RW.	Red & White	6.36
18R78/YP.	Yellow Perch	6.36
18R78/F.	Frog	6.36
18R78/SF.	Scale Finish	6.36

South Bend Baby Pike-Oreno. By far the most popular size in the Pike-Oreno family. Its size, weight and shape are ideal for bait casting with almost any tackle. Length is 3¾ inches, weight ½ oz. Two No. 2 treble hooks, steel headplate and leader.

No.		Per doz.
18R79/RW.	Red & White	8.82
18R79/YP.	Yellow Perch	8.82
18R79/S.	Silver Speckled	8.82

South Bend Surf-Oreno. One of the most effective artificial lures ever built. A favorite in Western and Minnesota for Muskies. Spinners at head and tail attract attention. Waterproof metal tube with rollwelded waterproof ends extends entirely through body and houses wire for hook attachment. Casts easily and rides the surface. Length 3⅝ inches. Weight 1 oz. Three treble hooks.

No.		Per doz.
18R77/RW.	Red & White	OUT
18R77/YP.	Yellow Perch	OUT
18R77/F.	Frog	OUT
18R77/LUM.	"Nite-Luming"	OUT

South Bend Bass-Oreno. The original and genuine world famous South Bend Bass-Oreno, for more than a generation the world's greatest game fish lure. Has that irresistible "Oreno" action never failed. Length 3¼ inches. Three No. 1 treble hooks.

No.		Per doz.
18R76/RW.	Red & White	7.76
18R76/P.	Pike Scale	7.76
18R76/F.	Frog	7.76

South Bend Nip-I-Diddee. A semi-weedless lure for bass, pike, and pickerel. Length 3"; weight ⅝ oz. Equipped with three No. 4 double hooks and spinners front and back.

No.		Per doz.
18R69/RW.	Red Head, White Body	8.82
18R69/YP.	Yellow Perch Scale	8.82

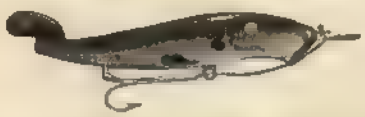
South Bend Lil Rascal. A small bait for the light tackle enthusiast. Travels at medium depth. Length 2⅜", weight ⅛ oz. Has two No. 1 treble hooks, hammered head plate, and stainless steel wire line tie.

No.		Per doz.
18R67/RW.	Red Head, White Body	8.82
18R67/YP.	Yellow Perch Scale	8.82

ROBERTS, PAW PAW, LAZY IKE, L&S AND HELIN LURES

South Bend Super Snooper. A new lure with fanning action. Head is wood, body is plastic. Length 2", weight ½ oz. Has two rear dressing treble hooks.

No.		Per doz.
18R68/RW.	Red Head with White Body	8.82
18R68/YP.	Yellow Perch Scale	8.82



Roberts Mud Puppy. Jointed wood lure, with appearance and action of a live creature. Will keep at almost any depth you troll. Tail spins on retrieve. A good muskie lure.

No.		Per doz.
18R65.	Natural Finish	14.70
18R66.	Red Head, White Body	14.70

Paw Paw Wattafrog. True to nature in design and colorations. Swivel eyes, and flutter weed guard on frog at rear. Length 3¼", weight ⅝ oz.

18R131. Per dozen. 7.06

Koutzky's Lazy Ike No. 3. The original Lazy Ike! Will perform known swimming action. Length 4", weight ½ oz.

No.		Per doz.
18R132/1.	Red & White	8.82
18R132/2.	Black Scale	8.82
18R132/3.	Perch	8.82
18R132/4.	Silver Scale	8.82

L & S Bass-Master. Fast sinking jointed plastic lure with life like glass eyes. Two treble hooks. Length 3" weight ½ oz.

No.		Per doz.
18R70/44.	Black Body, White Bars	8.82
18R70/23.	Yellow Body, Brown Back, Speckles	8.82
18R70/22.	White Body, Green Back, Speckles	8.82
18R70/21.	White Body, Black Back Speckles	8.82
18R70/11.	Red Head, White Body	8.82

Helin Flatfish. Underwater lure with three treble hooks. Length 3¼" weight ½ oz.

No.		Per doz.
18R133/O.	Orange	9.54
18R133/FR.	Green Frog	9.54
18R133/W.	White	9.54
18R133/YB.	Yellow, Red Head, Black Top	9.54
18R133/SI.	Silver Bronze	9.54

The Boodle Buggy goes anywhere—in car, on train or plane. Ideal where space is limited—in small apartments, hotel, tourist camp, etc. **Basket lifts out of frame and is easy to carry. Easy, fold-collapsible chassis, aluminum painted.** Tubular Duchess gear, spring foot brake, and chrome pusher. Leatherette lined and padded body and hood rail. Wire body hood, back rest, and storm shield. Four-bow hood, sun visor, painted folders. 16"—12 spoke wheels, 23/32" Grey tires, large chrome hub caps. Size: 32x18x10¼" deep. Pusher 35" from floor. Choice of colors: Blue, Grey, Turquoise. Approx. ship. wt. 46 lbs.

107F571.....EACH **$23.75**

FAMOUS WELSH BABY CARRIAGES

Strollee. Easy, semi-fold collapsible chassis, aluminum painted. Duchess gear, foot brake, chrome pusher and fenders, and chrome axle rails. Leatherette lined, heavily padded body and back rest. **Storm shield, adjustable leatherette covered metal footwell, extended foot rest board, safety belt, and box type seat cushion.** Four-bow hood, sun visor, wind breaker, plated folders, and adjustable glide. 19"—24 spoke, Nylon bushed wheels with 1½" Grey tires and chrome hub caps. Size 36x18x9" deep. Pusher is 38½" from floor. Choice of colors: Blue, Grey, or Turquoise. Shipping weight approx. 58 lbs.

107F37.....EACH **$33.50**

The Welsh "Opportunity." Easy, fold-collapsible aluminum painted chassis. Duchess gear, chrome pusher, and foot brake. Leatherette body, trimmed and quilted sides, back rest, and fibre board boot base. Four-bow hood, sun visor, wind breaker, and painted folder. 19"—12 spoke wheels, 23/32" tires, and chrome hub caps. Size: 32x18½x14" deep. Pusher 36" from floor. Choice of colors: Blue, Grey, Turquoise. Ship. wt. approx. 41 lbs.

107F596.....EACH **$16.10**

The Welsh "Playmate" Easy, fold-collapsible, rocker type chassis. Has safety clip, bag stabilizer tie bar, rubber insulated on bottom for stability, and wire attachment for auto seat. **Body of heavy, unbleached duck, with arm rests, play hands, tray, board seat.** Cloth is removable for washing. **Seat size: 12x11½x7½". Overall size: 24½x16x 25¼". Size when folded: 24½x16x5¾. Color:** White. Approx. ship. wt 12 lbs.

107F100.....EACH **$5.05**

The Welsh "Chariot." Easy, fold-collapsible, aluminum painted chassis. Conventional gear, hand brake, and chrome pusher with 3-position adjustment. Chrome frame and metal foot rest. Leatherette covered body is lined, has board bottom. 8" 12 spoke wheels with 23/32" tires, and chrome hub caps. Size: 18x 12x21½" deep. Adjustable pusher 35" to 38" from floor. Approx. ship. wt 17 lbs.

107F101.....EACH **$9.05**

DACHSHUND FOOT SCRAPER

Add that friendly touch to your home. The unusual dachshund shape as a foot scraper is amusing and appropriate. Made of solid cast iron painted Black. Dog has red tongue. Length 20". Ship. wt. 30 lbs. F.O.B. Factory, Ill.

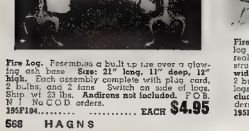
92F1500.....EACH **$5.75**

AUTOMATIC CRESCENT LITE FIRELIGHTER

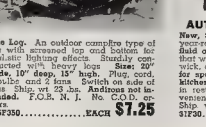
New, 30" solid brass, highly polished poker lighter. A perfect, year-round practical gift. **Works like a cigarette lighter with fluid and flint.** This improved lighter has greater fluid capacity that will burn for months without refilling, an everlasting asbestos wick, and safety cap to cover flame head when not in use. **Ideal for sportsmen to start campfires, to light fireplaces, open fires, kitchen ovens and ranges, igniteall stoves and furnaces.** For use in restaurants, bakeries, on boats, or on the farm. Also convenient for hard-to-get places. 3-oz. fuel capacity. **Length 30".** Ship. wt. 3 lbs. **Refill $10.68.**

31F30.....EACH **$6.95**

Fire Logs and Firelighter



Fire Log. Resembles a built-up tree over a glowing ash base. **Size: 21" long, 11" deep, 12" high.** Each assembly complete with plug cord, 2 bulbs, and 2 fans. Switch on side of logs. Ship. wt 23 lbs. **Andirons not included.** F.O.B. M. No C.O.D. orders.



Fire Log. An outdoor campfire type of log with screened top and bottom for realistic lighting effects. Sturdily constructed with heavy logs. **Size: 20" wide, 10" deep, 13" high.** Plug, cord, 2 bulbs and 2 fans. Switch on side of logs. Ship. wt 23 lbs. **Andirons not included.** F.O.B. N. J. No C.O.D. orders.

115.04 miles per hour!

New 225-cu. in. Class

World Record

SET WITH DEPENDABLE

CHAMPION

SPARK PLUGS

FIRST TIME CENTURY MARK REACHED BY LIMITED CLASS BOAT!

This outstanding powerboat achievement by Paul Sawyer driving his 225-cu. in. hydroplane, Alter Ego, is an equally outstanding example of getting maximum power from an engine of limited displacement. Four other limited class world records were set at the Salton Sea regatta last November and all drivers, like Sawyer, expressed perfect satisfaction with dependable Champions—America's Favorite!

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

FOLLOW THE EXPERTS!

get Champions for your boat and car

Listen to the CHAMPION ROLL CALL . . . Harry Wismer's fast sportscast every Friday night, over the ABC network

Make your store the Headquarters for

Family Fun

—with

SOUTH BEND CROQUET!

Be the source for all equipment connected with family fun! Tie in South Bend Croquet with displays of outdoor accessories. You'll benefit from the increased interest in yard activity promoted by this popular family game.

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East—Julius Levenson, 7 East 17th St., N.Y.
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Midwest—South Bend Toy Mfg., So. Bend, Ind.
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No. Calif—Standard Toy Agencies, 718 Mission, San Francisco, Calif.
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SOUTH BEND TOY MFG. CO.
SOUTH BEND 23, INDIANA

SOUTH BEND Croquet

No three women agree on—
WHAT'S THE BEST BUY IN ELECTRIC RANGES?.....but everybody agrees that

Model TOYS

... are the OUTSTANDING VALUES IN THE TOY INDUSTRY

A husky new
HEILINER SCRAPER

Fair Trade Price $15.95
11 Western States $16.75

This authorized working model of the famous Heil earth mover scoops up, hauls away and dumps earth, tows other toys or can be towed. Red baked enamel finish. 28" long, 12½ lbs.

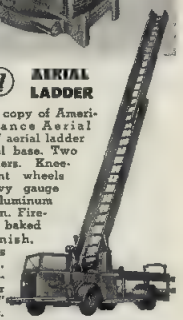
Model TOYS ROAD GRADER

Rugged all-steel authorized copy of the giant Adams Diesel Road Grader. Adjustable scraper blade; knee-action wheels; steering wheel steers; famous-make rubber tires. Yellow enamel finish. 26" long; 14 lbs.

Fair Trade Price $13.95 .11 Western States $14.75

Model TOYS AERIAL LADDER

Authorized copy of American-LaFrance Aerial Ladder. 42" aerial ladder on a swivel base. Two extra ladders. Knee-action front wheels steer. Heavy gauge steel and aluminum construction. Fire-engine red baked enamel finish. stainless steel trim. Famous-make rubber tires. 33" long; 11 lbs.



Fair Trade Price $15.95 11 Western States $16.75

Model TOYS CRANE

Fair Trade Price $13.95
11 Western States $14.75

Cargo hook and clam shell furnished. Cab swings in 360° circle. Lifts more weight than any comparable toy. Authorized copy of Unit Mobile Crane. All-steel. Famous-make rubber tires. Orange enamel finish. 11½" long; 19½" boom; 7 lbs.

Model TOYS DUMP TRUCK

Fair Trade Price $13.95
11 Western States $14.75

with detachable tractor for towing other Model Toys!

Sturdy steel authorized copy of Euclid Bottom-Dump Truck. Hopper bottom opens by lever; universal-type coupling between tractor and trailer; knee-action front wheels steer; famous-make rubber tires; orange enamel finish. 27" long; 11 lbs.

THE CHAS. WM. DOEPKE MFG. CO., Inc., ROSSMOYNE, OHIO
Every Model Toy you sell helps you sell another!

CLARUS
35mm Camera

America's proudest achievement in fine 35mm cameras

SPEEDS TO 1/1000 OF A SECOND.. Offers All of These Important Features

35mm CAMERA AMERICA'S OUTSTANDING

Popular-priced candid with every important feature costing three times as much, PLUS features no other camera has! Precision-built instrument. Accurate, split-image type, built-in range-finder is coupled directly to camera lens. Sharp focus on subject is automatic when range-finder is focused. Focal plane shutter has curtains of rubberized nylon, insuring flawless performance in arctic cold or desert heat. Shutter has built-in flash synchronization for use with Clarus Flash Gun attachment. Double exposures are prevented because shutter is cocked only when film is advanced. Same mechanism also moves exposure counter. Interchangeable lens is high speed 1-inch coated Wollensak. Range is 3½ feet to infinity. Shutter speeds from 1/25 to 1/1000 and bulb. Built-in view-finder. Film size—18, 20, or 36 exposure 35mm. Negative size—1x1½ inches. Construction—three die cast parts: front case, top case, back. Body size—1¾x3x5 inches. Weight—30 ounces. Lens mount diameter—1⅛ inches (31.5mm.)

No. 2CCM2835. Standard model with F/2.8 lens. Retail 100.00, plus 16.25 Fed. Excise Tax. Dealer's, each **65.00.** Less 2% net **63.70**
(Add 16.25 Fed. Excise Tax)

No. 2CCM2833. Same as above except with F/3.0 lens. Retail 145.00 plus 23.50 Fed. Excise Tax. Dealer's, each **94.00.** Less 2% net **92.12**
(Add 23.50 Fed. Excise Tax)

- **PRECISION-MADE INTERMITTENT TYPE FOCAL PLANE SHUTTER** with rubberized nylon curtains. Operates perfectly even in desert sands or arctic snows!
- **RIGID DIE-CAST CONSTRUCTION** insures lifetime precision focus. Optical alignment of lens and range finder not affected by severe use, as both are mounted in the same die casting.
- **COUPLED SPLIT IMAGE RANGE-FINDER** with extra large aperture for ease of operation. Range is from 3½ feet to infinity.
- **INTERLOCKED FILM TRANSPORT,** speed mechanism, and exposure counter. Double exposures are impossible. Exposure count is obtained by a 35 to 36 gear ratio.
- **HINGED BACK OPERA WIDE.** Loading is faster, easier. No need to fray your temper by fumbling blindly to secure film in position.
- **INTERCHANGEABLE LENSES.** Clarus wide-angle and telephoto lenses are interchangeable with regular lens. All are coupled to range-finder for pin-sharp focusing. Clarus is the only popular priced 35mm camera in America with interchangeable lenses.
- **FLASH SYNCHRONIZATION,** built-in at the factory to insure positive synchronization at any speed. You never miss the pictures.

CLARUS TELEPHOTO LENS

Brings distant scenes 3 times as close as a regular lens with this superb f/3.5 101mm coated Wollensak telephoto lens! Perfect for picture taking at sports events, or for candid shots of subjects who are unaware you are around. Excellent too, for detailed close-up shots and portraits. The Clarus telephoto lens is coupled to the range-finder for accurate focusing and has click stops for diaphragm opening without changing, eliminating the need to check scale. Retail 55.00, plus 13.80 Fed. Excise Tax.

No. 9CT85. Dealer's each **38.67.** Less 2% net **55.54**
(Add 13.80 Fed. Excise Tax)

CLARUS WIDE-ANGLE LENS

Gets everybody in the picture on one shot! The Clarus wide-angle lens covers twice the normal area at the same distance from camera to subject. A fine f/3.5 35mm coated Wollensak lens. Click stops enable you to change diaphragm opening without checking scale. The Clarus wide-angle lens is coupled to the range-finder to insure perfect focusing. Retail 60.00, plus 9.75 Fed. Excise Tax.

No. 9CW60. Dealer's, each **40.00.** Less 2% net **39.20**
(Add 9.75 Fed. Excise Tax)

CLARUS FLASH GUN

Now your Clarus can take pictures 24 hours a day! Some of your best shots will be taken indoors with the Clarus Flash Gun. Use it to bring out shadow details in daylight photography too. Built-in synchronization makes it impossible to miss the picture. Synchronizer is geared (at all speeds) to the shutter curtain. Flash bulb fires when curtain moves. Clarus Flash Gun is lightweight, compact. You can mount it in seconds, and its position allows free use of both hands. **Flash Gun Only.** Retail 9.85 plus 1.48 Fed. Excise Tax.

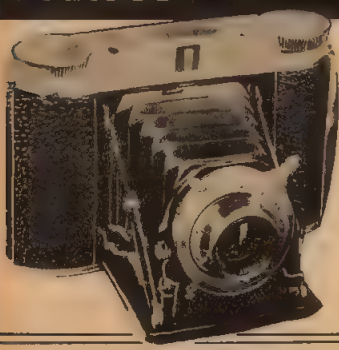
No. 2CCF384. Dealer's, each **5.91.** Less 2% net **5.79**
(Add 1.48 Fed. Excise Tax)

Clarus Carrying Case

Protect your Clarus camera from dust, dirt, and hard knocks with this fine case of top grain cowhide. Specially built for the Clarus, it has knurled ring at base for fastening securely to camera tripod socket. You can take pictures without removing camera from case. Velour lined. Complete with two carrying straps—one for hand carrying, the other for wearing around neck. Retail 7.50.

No. 2CCC397. Dealer's, each **3.68.** Less 2% net **4.90**

ANSCO PRECISION BUILT CAMERAS



ANSCO TITAN 20 F4.5 PRECISION FOLDING CAMERA

- COATED f4.5 ANASTIGMAT LENS
- ACCURATE SET-AND RELEASE TYPE SHUTTER WITH SPEEDS TO 1 400 SECOND AND BUILT-IN-FLASH SYNCHRONIZATION
- UNIQUE COLOR-CODED ZONE FOCUSING INDICATOR
- ALL-METAL BODY CONSTRUCTION
- GRAINED GENUINE LEATHER COVERING
- PICTURES 2¼ x 2¼ INCHES IN BLACK-AND WHITE OR COLOR

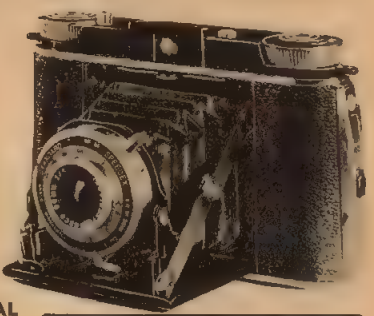
An outstanding camera with a colored depth-of-focus scale on the lens mount Extremely accurate shutter, speeds from 1 second to 1/400 second plus time and bulb Built-in flash synchronization f/4 5 coated color corrected lens, stops down to f/22 Body release and cable release socket Optical type eye-level viewer Twelve exposure, 2¼ by 2¼ inches on 120 film All metal, with top grade genuine leather covering Chrome trim Lens mount diameter 1⅛ inches (26 mm) Another feature of the Ansco Titan is a unique color coded zone focusing indicator Shows at a glance the approximate area of sharp focus for every lens diaphragm stop and distance setting Zone focusing indicator readings are direct Retail 69 50 tax included.

No ICJN177. Dealer's, each **54.43** Tax Incl

DeLuxe Lined Eveready Carrying Case for Ansco Titan. Retail 7 50
No. 6C1117. Dealer's, each **4.88.** Lots of 6, each **4.13.** Less 2% net **4.05**

CGC FLASH UNIT for Ansco, Titan and Speedex
Retail 5 50, plus .62 FET
No. 3CKP40. Dealer's, each **3.67.** Lots of 12, each **3.30.**
Less 2% net **3.23**
(Plus .62 Fed Excise Tax)

ANSCO F6.3 SPEEDEX FOLDING CAMERA



Lens and Shutter—Self-erecting front; coated f6.3 Ansco anastigmat lens Automatic shutter with speeds of 1/100, 1/50, 1/25 plus "time." Built-in flash synchronization at all shutter speeds

Focusing Range—3½ feet to infinity, by revolving helical lens mount

Shutter Release—Body release button on top of camera Cable release socket in shutter assembly

View Finder—Enclosed eye-level optical type finder centrally located above camera lens

Tripod Socket—Recessed in center of bottom of camera

Picture Size—Twelve black-and-white or nine color pictures 2¼x2¼ inches on 120 size roll

This camera has fully corrected f6 3 Ansco anastigmat lens Glass air lens surfaces hard coated to minimize light reflection and flare Self setting shutter provides accurate-automatic speeds of 1/100, 1/50 and 1/25 second plus "time" Built-in flash synchronization for all shutter speeds Body covering is genuine leather. Retail 39.50, tax included

No. 1CJN63. Dealer's, each **30.94**

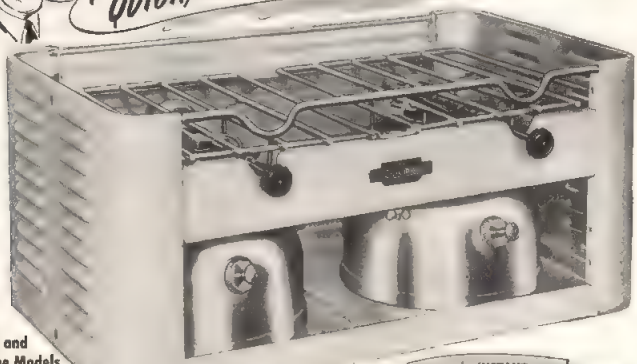
EVEREADY CARRYING CASE FOR ANSCO SPEEDEX—De Luxe Lined Eveready Retail 7 30
No 6C1117. Dealer's, each **4.88.** Lots of 6, each **4.13.** Less 2% net **4 05**

THE NEW SENSATIONAL flexaret III REFLEX CAMERA

- **Automatic loading, film transport, frames counting.**
- **F3 Viewing lens, Anastigmat makes possible a brilliant image on the ground glass.**
- **F3.5 Meopta Mirar taking lens; hard coated, three element anastigmat.**
- **Light in weight, sturdy in construction; body made of rustproof alloy, weight 25 oz.**
- **Fingertip, precision focusing at the bottom of the camera for either hand.**
- **8 speeds on the Prontor II Shutter from 1 - 1/200th second, "B" and "T".**

The reflex camera is perhaps the most universal type of camera It has many advantages over other types of cameras. As the objective gives considerable depth of definition and as the pictures are of sufficient size, it is not always necessary to have them enlarged The reflex camera FLEXARET III is the most suitable camera of its kind for both beginners and expert amateurs, a condition, which is only fulfilled by very few photographic cameras It can be used in the home and out of doors, and—as it is of firm construction—it can be carried about without suffering any damage.
The FLEXARET III is a reflex camera with two objectives for 12 pictures 2¼"x 2¼" on a roll of standard 120 film It is fitted with a lever for winding the film and has a counter which indicates the number of shots taken
The body of the camera is cast of light metals, most of it has a black coating, some parts are lacquered and others are chromium plated. Thus the camera is well protected and has an elegant finish It is of very low weight, 25 ounces.
The objective is an anastigmat MIRAR of aperture f3.5 and focal length F 80mm (3.2"), fitted into the central shutter Prontor II ("B", "T", 1, 1/2, 1/5, 1/10, 1/25, 1/50, 1/100 and 1/200 sec.) A self release and an iris diaphragm are also fitted The view finder objective is of the same type, but of aperture F 3. The image is focused on the opaque focusing screen in the hood by moving a lever which moves both objectives at the same time. A magnifying glass fitted to the hood can be used for more precise focusing Also equipped with a built-in self-timer with 10 seconds delayed action. Complete with leather carrying case
Retail 85 00
No. 1CF111.
Dealer's, each net **59.50**

THE COLEMAN GIVES YOU QUICK, HOT MEALS FOR THE WHOLE CREW



Alcohol and Kerosene Models

The Only INSTANT-LITE Marine Stove on the Market! Can't Spill Fuel! No Fuel Exposed!

Coleman 2-Burner

MARINE STOVE

Meets Yacht Safety Bureau Requirements

You can whip up a quick, hot meal for the whole crew with the dependable Coleman Marine Stove. Check over these convenient features:

Instant Lighting—No priming necessary. Burners generate to full cooking heat in 60 seconds.

Regulates Easily to any desired cooking heat.

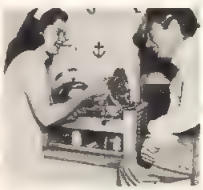
Safe—Fuel containers can't be filled while lighted—can't spill fuel if upset

Won't rust or corrode in salt water areas.

Nickel plated brass fuel founts each hold one quart of fuel; operate 4½ to 6 hrs.

Meets Yacht Safety Bureau Requirements when properly secured in your galley. Equipped with two easily detachable, portable burners for the improved safety and convenience of filling ashore. It is not, however, recommended that burners be operated outside of stove casing while afloat.

Guard rails built front and back standard equipment. Pot holders extra.



Plenty of Cooking Space

You have plenty of room for two regular size utensils .. yet stove itself takes up little space in galley. Size: 21¾" long, 12⅝" wide, 9⅛" high.

Coleman *ALL-WEATHER KEROSENE LANTERNS*

This famous Coleman mantle lantern makes and burns its own gas from kerosene. Wind-proof and rain-proof. Gives a bright dependable light during the severest storm. Instant lighting. Absolutely safe. Can't spill even when tipped over. Pyrex globe heatproof.

THE COLEMAN COMPANY, INC.
WICHITA 1, KANSAS

Mail Coupon for free illustrated literature

MAIL COUPON TO: THE COLEMAN COMPANY, Inc. Dept. 207-MB, Wichita 1, Kans.

Please send me FREE illustrated literature on the 2-Burner Marine Stove and the Kerosene Lantern.

NAME_____

ADDRESS_____

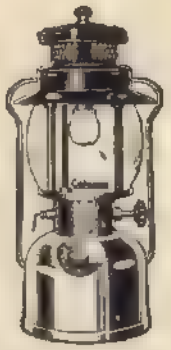
CITY_____ STATE_____

Coleman Gasoline Appliances and Supplies

Coleman Lantern No. 200 Single mantle lantern with pyrex globe, 6½" ventilator top of [illegible] enamel 1¾ pint fuel capacity. Height over-all 12¾". Shipping weight 4 lbs. Retail 11.95

No. 23R9. Each 8.21

No. 23R28.
Retail 2.95. Each..... 1.89



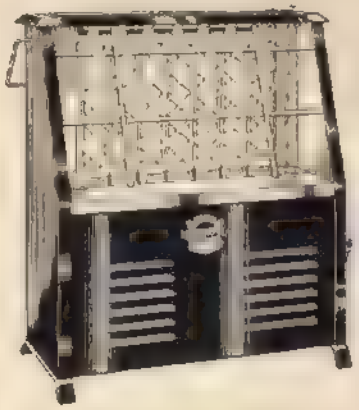
Coleman Lantern No. 228D. Double [illegible] Silk-light mantles, nickel plated fuel fount, enameled 8¾" fuel capacity enough for 10 to 12 hours service. Built-in air pump, oversize generator. Retail 14.95.

No. 23R12. Each..... 10 27

Coleman Lantern No. 220D. Double [illegible] Silk-light mantles, nickel plated fuel fount enameled 6¾ inch ventilator top. Two pint fuel capacity. Built-in air pump, over-size generator. Shipping weight 5 lbs. Retail 13.95

No. 23R11. Each 9 57

No. 23R29. Reflector for above. Retail 3.25 Each 2.24

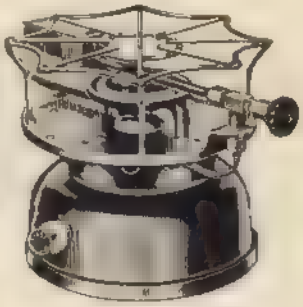


Coleman Radiant Heater No. 16. Portable type heater with aluminum heat reflector, steel dress guards. Brown enamel finish. Single unit construction keeps generator in line with Bunsen for perfect combustion and odorless operation. Heavy sheet steel tank capacity 2 pints. Height 15½", width 16", depth 7½". Shipping weight 21 lbs. Retail 22.50

No. 23R20. Each 14.68

Coleman G. I. Pocket Stove, No. 530. Instant-light gasoline stove [illegible] nickel finish. Brass and stainless steel burner, brass fuel fount with one pint capacity; 6¼" folding grates; built-in pump. Two-piece aluminum case may be used for cooking. Height 8⅝", diameter 4¼", weight 2¼ lbs. Packed four to carton. Retail 7.95.

No. 23R18. Each..... 5.22



Coleman Speedmaster Stove No. 500. Instant-lighting single burner stove with 2 pint fuel fount, built-in pump, long-lasting generator. Wind-proof, quiet, odorless, completely safe. Height 7½", width 10½", shipping weight 5½ lbs. Retail 11.95.

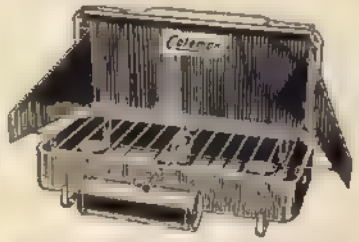
No. 23R15. Each 8 21

Coleman Folding Camp Stove No. 425 Instant-lighting 2-burner stove, with 2½ pint capacity removable fuel tank, folding windshields and legs. Green baked enamel finish. Size 18½ x 12 x [illegible]. Shipping weight 13 lbs. Retail 11.95

No. 23R14. Each 8 21

Same as above with 3½ pint fuel tank, size 22½ x 13⅜ x [illegible]". Shipping weight 18 lbs. Retail 15.95 (Mfg. No. 413D)

No. 23R13. Each 10 95



Coleman Folding Camp Stove No. 426. Instant lighting 3-burner stove with 4 pint capacity removable fuel tank, built-in pump for gasoline or kerosene, folding legs. Green baked enamel finish. Size 25⅝ x 14 x 6½". Shipping weight 25 lbs. Retail 22.50

No. 23R16. Each 15 43

Coleman No. 10 Folding High Stand Utility supports all portable stoves at table top height. All steel construction self-locking joints. Folds to [illegible] x 2 x 26⅛ inch size. Shipping weight 8 lbs. Retail 4.25

No. 23R17 Each 2 92

Coleman Cabin and Trailer Stove No. 391A. For all-purpose [illegible] cooking surface [illegible] x [illegible] with [illegible] top. Size [illegible] x 17 x 7½". Shipping weight 13 lbs. Retail 10.26.

No. 23R18. Each 14 95

Coleman Cabin and Trailer Stove No. 395 Same as above with one giant and two standard burners, cooking top [illegible] x [illegible]. Size [illegible] x 17 x 7½". Shipping weight 19 lbs. Retail 19.95.

No. 23R19. Each 13.69

Rota-Type Generator No. T66. Made for Coleman Lantern No. 242. Packed ½ doz. (No less sold.) Retail

No. 23R26. Per doz. 5.88

Over-size Generator No. T44G. Made for Coleman Lantern Nos. [illegible] Packed ½ doz. (No less sold.) Retail 75

No. 23R25. Per doz. 5.88

Jumbo Rotary Generator No. R55. Used on all quick lighting lamps and lanterns. Automatic cleaning needle, rotary lever. Packed 1 doz. Retail 86

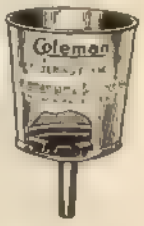
No. 23R24. Per doz 6.67

Pyrex Globe No. 550 Heat resistant glass bulge type for No. 242 lantern. Packed ½ doz. (No less sold.) Retail 1.00.

No. 23R23.
Per doz. 6.64

Pyrex Globe No. 330. Straight type for Nos. 220 and 228 lanterns. Packed ½ doz. (No less sold.) Retail 1.25.

No. 23R22.
Per doz. 8.92



Filtering Funnel No. 0. Made of copper with [illegible] filter 2¼" diameter. Packed ½ doz. (No less sold.) Retail .55.

No. 23R30.
Each 57

Filtering Funnel No. 1A. Made of aluminum, 4½" diameter. Packed ½ doz. (No less sold.) Retail 2.45.

No. 23R27
Each 1.69

Coleman Self-Heating Iron No. 4A. Nickel plated base, lid, and frame. 1 pint brass fount. Two-piece ventilated lid keeps handle cool. Complete with stand, pump, wrench, measuring can. 4¼" wide, 10¼" long, 6¼" high. Weight 6½ lbs. Retail 9.95.

No. 23R8. Each 6 82

Coleman Raytex Mantles No. 31. Good quality rayon fibre. Durable construction, strong single weave. Fits all Coleman lanterns. Packed ½ doz. to box; 1 gross to display carton

No. 23R21. Per doz 90
Per gross 10 58

EXTRA DISCOUNTS AVAILABLE ON FACTORY SHIPMENTS — WRITE FOR DETAILS

PICNIC KITS

Deluxe Finely-Woven Fiber Baskets, Lined with Waterproof Statex. Finished in Rich, Waterproof Maple Enamel.

Picnic Basket—With Flatware Service for 4 Persons. Fiber frame bottom. Floor of woven hard maple splint. Equipped with sturdy oak handles and doubly-plated heavy metal forks and spoons in service for four, mounted on long-wearing elastic. Sturdy, all-wood lid on brightly plated hinges. Size, 10½" wide, 16" long, 8" deep. Each in carton—shipping weight 5½ lbs.

No. 5C47. Each.... **3.35**

"English Type" Picnic Baskets—Service for 4 or 6 Persons. Aristocrat of picnic baskets. Sturdy cabinet—wood frame. Woven hard-maple flooring in wood frame. Solid oak handles, strongly mounted. Three-ply wood lid on plated metal hinges. Equipped with 4 Each — *Stainless Steel* Forks and Spoons, Sanitary, Divided Plastic Plates, and Heavy Handled Plastic Cups. Cups and Plates in bright assorted colors. Elastic flatware holder on lid. Size 12" wide, 21" long, 9" deep. Each in carton—shipping weight 7 lbs.

No. 5C48. Each ... **6.50**

Same as above, but with complete Service for 6 Persons. Shipping weight 8 lbs.

No. 5C49. Each.... **8.75**

"Picnic Aid" by Buckeye. Lets you [illegible] carry hot dishes at the [illegible] Set consists of five brightly polished aluminum compartments, weather- and insect-proof. Easy-to-set top-to-bottom lock [illegible] Top and bottom of 20-gauge aluminum. Insets, 22-gauge aluminum. Five containers are removable—for everyday use in stove or oven. Perfect for fishing, camping, outings. Sections can be combined for use as covered fryer, boiler, warming pan, fry pan, etc. Each in handsome gift carton. Retail 4.95 each.

No. 14C6. Each **3.89**

12 or more. Each..... **3.50**

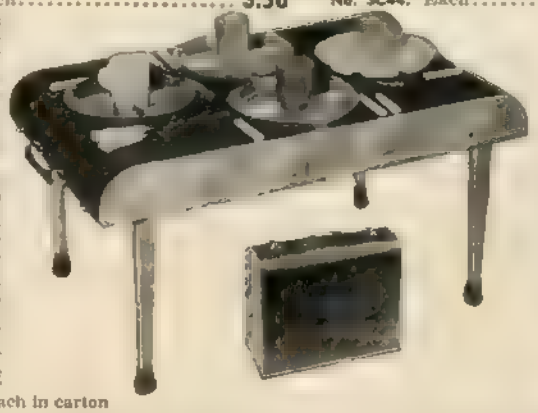
"Woodland" Two-Gallon Fold-A-Way Faucet Jug. Featuring the superbly-made "Pol-Rock" Metal Liner, ideally suited for keeping liquids hot and cold. Plus the Fold-A-Way Faucet which cannot accidentally open and folds out of the way entirely when not in use. Faucet made of solid brass, chromium plated . . . cannot leak. Baked hammered metal, Sage Green enamel finish. Fiberglass insulation. Yellow plastic cap . . . free-swinging ball handle to match. Excellent size for business and commercial use. Packed each in carton—shipping weight about 7 lbs.

No. 5C44. Each..... **6.15**

FOR THE OUTDOORS—PICNIC JUGS

"Woodland" One-Gallon Fold-A-Way Faucet Jug. With the superb "Pol-Rock" Metal Liner. Keeps food and liquids hot and cold. Features the "Fold-A-Way" Faucet [illegible] out of way when not in use [illegible] cannot leak. Baked hammered metal, Sage Green enamel finish. Fiberglass insulation. Yellow plastic cap with free-swinging ball handle to match. Packed each in carton — shipping weight about 6 lbs.

No. 5C43. Each **4.00**



Snack-Pak. Looks like a suitcase. Is a table. Stands as handsome piece of modern furniture. Rugged luggage—ideal for picnic or beach party. Room, [illegible] complete lunch and is complete. Is equipped with colorful plastic luncheon set in choice of service for 4 or 6. Folds up simply into convenient suitcase—opens into perfect picnic table. Size overall. Table open: 20" x 32" x 16" high. Suitcase (closed) 16"x20" x 7½". Packed each in carton.

Snack-Pak With Service for 4 Persons. Consists of 4 Each—Plastic Tumblers; Plastic Dishes; Catalin-Handle Knives, Forks and Teaspoons. Retail 22.95.

No. 5C45. Each **15.50**

Snack-Pak With Service for 6 Persons. Consists of 6 Each—Plastic Tumblers; Plastic Dishes, Catalin Handle Knives, Forks and Teaspoons and 1 Sandwich Box. Retail 26.45.

No. 5C46. Each **17.85**

"Woodland" One-Gallon Shoulder Spout Jug. With the famous "Pol-Rock" Metal Liner. Light weight . . . [illegible] New streamlined styling. Baked hammered metal, Sage Green enamel finish. Fiberglass insulation. Yellow plastic cap with matching free-swinging ball handle. Keeps food and liquids hot and cold. Packed each in carton — shipping weight about 4 lbs.

No. 5C42. Each **2.95**

"Woodland" One-Gallon Jug. With the new "Flex-Rock" Liner. Keeps hot or cold twice as long as any low-priced jug. Cleans as easily as glass . . . guaranteed unbreakable. Baked, hammered metal Sage [illegible] enamel finish. Fiberglass insulation . . . Yellow plastic cap with matching free-swinging ball handle. Packed each in carton shipping weight about [illegible] lbs.

No. 5C41. Each **2.35**

COLONIAL CRUISERS

The new 39-foot Master Stateroom Cruiser with berths for eight and two toilet rooms. Flying bridge may be had.

The 37 foot sedan Wanderer with flying bridge added.

The 37 foot Sport Cruiser.

The new 31 foot Watermaster cruiser.

WE are proud of the great new fleet of Colonials for 1951.

You, too, will be proud to own and command one of these smart, outstanding cruisers.

Now built in three popular sizes. 31, 37 and 39 feet in length. Several cabin styles to suit any cruising need.

Compare Colonial for comfort, reliability and value. Note the expert craftsmanship, the rich and luxurious finishes.

Learn why you are hearing Colonials praised more and more in numerous ports of call. Their unusually rugged construction to the best of old time tradition, coupled with modern styling and appointments are some of the many reasons Colonials are regarded among the finest. Their moderate prices for such high quality is really surprising.

For information, write:

COLONIAL BOAT WORKS, INC. **Drawer 309** **MILLVILLE, NEW JERSEY**

COLONIAL CRUISERS

The fame and public acceptance of the Colonial Cruisers has been spreading rapidly. There are many reasons for this increasing popularity.

They are designed and built with safety as the keynote

Colonials are a quality product throughout, built of only the highest quality materials. The craftsmanship and luxurious finishes are unexcelled.

Colonials are used a great deal of the time in the ocean so naturally they must be built for salt water use.

The combination of the vee and round bottom design is most efficient, non-pounding, and provides unusual speed with moderate horsepower.

Colonials are built in three popular sizes, 31, 37 and 39 feet with several cabin arrangements to suit any cruising need

The new 39-foot Master Stateroom Cruiser as pictured has comfortable overnight accommodations for eight persons in four separate compartments with two enclosed toilet rooms. A flying bridge may be had if desired.

For information, write:

COLONIAL BOAT WORKS, INC. Drawer 309 MILLVILLE, NEW JERSEY

horror of horrors!—buy their requirements. Again, they could forget speed records and purchase straight automobile gas, he pointed out. Or finally, they could all switch to outboards to keep in practice.

Gulf's cancellation of the Hall of Fame dinner kept Commodore Aubrey Thacker of Capital Power Boat Association from fully savouring of the glory that came to him for setting world records in D service runabouts. He was to have been honor guest at the dinner, it was reported.

Yachtsmen in motor and sail alike looked for signs of the sort of encroachment by the services upon navigable Bay waters that took place during World War II. At that time the charts became veritable jigsaw puzzles of restricted and prohibited zones, some of which never have been relinquished.

As of this writing there were no requests for new restrictions, but the boatman passing hard by firing ranges now established had best follow the courses prescribed by the patrol boats, for the roar of bomb and cannon is constant at Aberdeen, Bloodsworth and Dahlgren.

As to shortages, we of the Chesapeake country will use old packing crates for planking and second hand nails for fastenings like all other patriots, but we do ask the authorities to try and spare us a little copper paint, for the teredo lives with us.

Builders Go on Defense Production

One man's poison is another man's meat, and three of the largest yacht building concerns on the Bay are expecting work as a result of national rearmament

Trumpy of Annapolis, which recently launched the first of a projected class of welded aluminum PT-boats, now has the design and procurement agency for a new type of Navy minesweeper Eighteen are to be built for a starter.

The vessel will be 47 feet on the waterline, 60 overall, which is smaller than most previous ships built for the type of work. Trumpy will construct five. The plant already in being across the harbor from Annapolis Yacht Club should be sufficient for the order.

Barnes Lusby, the master builder at M. M. Davis of Solomons, reports that the Cruisalong facilities, now operating at a rate of better than one boat a day, need but little revamping before they can commence turning out such things as munitions containers—and, of course, any kind of medium-sized boat.

The Owens brothers at Dundalk want to keep on building their cruisers as long as possible, but they are ready for quick conversion. The plant is now concentrated in the Baltimore-area location after a period during which part of the operations were carried on at York, Pa.

Yacht Clubs Make Race Plans

The Chesapeake clubs were not particularly active in the dead of winter, although it was a time for planning by those members who serve on committees, such as the race variety Annapolis Yacht Club and the Naval Academy Sailing Squadron began preparations for the Newport-Annapolis Race of 1951; the local organizations will handle everything at the finish off the mouth of the Severn, and the New York Yacht Club will blow the whistle for the start on June 18 off Brenton Reef Lightship

The Navy had to do without its seasoned sailing officer, Commander Hank Shonerd, who shoved off for other duty His successor has been selected, but not yet publicly named.

Gibson Island and the combined Star fleets of the Chesapeake and Delaware Bays looked forward to the Internationals next summer. Local Starmen feel a special obligation to put on a good series, for it happens that 1951 is being celebrated as the fortieth anniversary of the class

The Islanders elected Miller Sherwood, owner of the Owens cutter Rubicon, as their commodore.

Maryland Yacht Club will be host to the National Ones in their national championships. Indian Landing Boat Club will hold the East Coast championships for the same class, the Potomac River Sailing Association will stage the Comet Territorials. Lightnings will have their Dixie Districts at some as yet unannounced Bay point and Baltimore Yacht Club will be the scene of the Star Second Districts.

Baltimore Yacht Club has elected Albert Bradley, a motor boat man, as its commodore.

The regatta next coming up will be the Columbia Yacht Club's annual frostbite on the Potomac over the Washington's Birthday holiday.

N. T. KENNEY

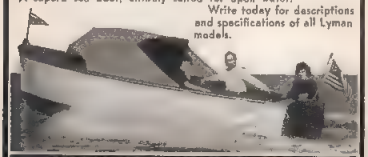
Clinker-Built by LYMAN

The Lyman line for '51 is the finest ever produced under this famous name. Beauty of design and finish plus greater comfort and seaworthiness have put Lyman models in the lead. And Clinker Construction means drier, smoother riding, superb rough water ability and lower upkeep.

These Lymon OUTBOARD models are now available in both 15-ft. and 13-ft. sizes: Beautiful RUNABOUTS (for motors up to 35 HP and 25 HP respectively), ANGLERS for carefree trolling and the brand new FISHERMAN; the 13-ft. LEADER (for motors up to 14 HP) and the rowing-outboard IDEAL (for motors up to 5 HP).

The incomparable 18-ft. ISLANDER is the completely satisfactory choice of boating fans who want a large, roomy, comfortable craft of moderate speed for fishing and family parties. A superb sea boat, entirely suited for open water.

Write today for descriptions and specifications of all Lyman models.



LYMAN BOAT WORKS, inc.

1621 FIRST STREET, SANDUSKY, OHIO

RAY-LINE

For all

BOAT OWNERS!

The Double-Duty Portable "Half-Mile-Ray" Is powerful Searchlight or Floodlight Saves Boat Battery! Ideal for Shore use too!

Send for Cat. MB

THE PORTABLE LIGHT CO., Inc.

218 WILLIAM STREET, NEW YORK 7, N. Y.

Sutton

SUBMERGED TYPE

ELECTRIC BILGE PUMP

VAPOR PROOF AUTOMATIC

Over 600 Gallons Per Hour!

Pumps over 12 ft. Above Pump Level!

Needs no lubricant. Can be operated manually or automatically with durable, all-copper, SWAY-PROOF FLOAT which won't cause pump to cut off with sway of boat. Can't be AIR LOCKED. Over-size, long-hour motor with oil-less bearings operates on 40 watts. Hermetically sealed. Made of heavy bronze castings; pump has 105 sq. in. of extra thick screen surface and bronze metal-lustre finish.

WRITE FOR DESCRIPTIVE LITERATURE

Sutton Manufacturing Corp.

112 W. WILSON AVENUE NORFOLK, VIRGINIA

SOUTHWARD HO!

By the holidays the cruising boats had reached south Florida in great numbers and were filling up the basins. Much to everybody's surprise the figures on southbound yachts were 16 per cent ahead of last year for October and 2 per cent ahead for November. Among those stopping at Bahia-Mar at Fort Lauderdale were Stardrift II owned by H. E. Warwick from Westfield, Indiana, Commodore Fred A. Treuber's Kanawha from Milwaukee, Robert S. Doggett's Trubilt from Nashville. At the Flamingo at Miami Beach were Porter B. Chase's Electra from Osterville, Hugh Chisholm's Aras from New York, and Sea Dream owned by John P. Porter of Libertyville, Illinois.

Probably the newest dock at Miami Beach is the Isle de Capri where William Allen's 92 footer Wilmar from Kansas City is tied up. Close by at the North Shore are Charles Lincoln's 51-foot diesel cruiser Chauncey II from Marian, Virginia, and the 59-foot ketch Tonga from New York owned by John Hertz, Jr. Basing at Miami for cruising in the Keys has been C. Leight Stevens' 64-footer Sea Mist from Savannah.

Fishing out of Craig's down the Keys are the Bruce Dodsons of Kansas City on their houseboat Helma. The Key Largo Anglers' Club which opened on Thanksgiving has had a good deal of early season activity. Rhodes Perdue's 98-foot diesel housebcat Caroline from Atlanta has been in and out here as have William Packer's Suzanne VI from Detroit and H. G. Matthews' Almar II from New York. Stanton Griffis apparently was in and out on the Marycia which he chartered from Mrs. P. W. Griggs of Palm Beach before and after he was appointed ambassador to Spain.

On the west coast at Fort Myers the municipal yacht basin has had a number of early arrivals including John Keegan's Shadow from New York, James W. Doyle's Wooden Shoe from Cohasset, James W. Riehl's Miss Elaine II from Cleveland and Fay Bellendorf's Fagert's Dream from Chicago.

Many Sailfish Boated

The tales from some of the boats about the fishing have been very surprising. In late December Charles F. Johnson of Palm Beach caught and released 21 sailfish in a single day off the inlet. He was fishing from his own boat Miss Chevy II and more surprising still he was using nine thread line. At the same time charter boats around were flying from four to fourteen of the sailfish pennants as they came in from the Gulf Stream. Franklin Smith of Pittsburgh caught and released 30 in several days fishing from Bob Haines' charter boat Adventure. And all this with the International Sailfish tournament coming up January 9 to 13.

Some of the best motorboat racing ever seen around Florida was at Miami's Orange Bowl regatta. The hydroplane event brought together P. J. Henn's Goo Goo II from Murphy, North Carolina, Ray Gassner's Sunshine Baby II from St. Petersburg and Shamrock III which Ken Dempsey of Rochester had just sold to Louis Nuta, Jr. of Miami. Racing against them were the 135 high point boat for 1950, Tommy Gore's Miami Boy recently bought by Ed Fairbanks of Miami, and a newcomer to the 135s, Dick McGinley in a boat just finished by local builder George Wall. Gassner passed McGinley in the last lap of the free-for-all Orange Bowl trophy race and then took the final of the hydro event. However McGinley was high point man in the hydros with a first and a third. Fairbanks was second with a second and a fourth.

In the E inboard racing runabout Sherman Critchfield's world's record holding Hell's Angel lead with a first and a third but in the second heat was behind two plastic boats built by Al Menkens of Long Beach, California. Menkens' Plastigo II driven by Buddy Brown of Miami was easily the fastest E present but cut the starting buoy in the first heat. In the second she led all the way with Plastigo I now Louis Nuta, Jr.'s Little Stinker taking second. Jimmy Wynne of Miami won the 48 cubic inch hydro class with a first and a second while Amado Tanael of Washington trailed with

Colt's Automatic Pistols

Match—Target

Heavy fluted barrel for accuracy and balance. The colt-master rear sight, glare-proofed for, more "possibles" Micrometer-click adjustment will not shoot loose. Ramp front sight, undercut. Custom type stocks of coltwood plastics. Rugged, beautifully checkered. Automatic slide stop holds the slide open after last shot on the left side for easy operation

Ammunition—22 long rifle Regular or high speed
Magazine Capacity—10 cartridges 5 shot also available
Action—Lightning fast, smooth clean, crisp pull
Length of Barrel—6 inches
Length Overall—10½ inches
Weight—41 Ounces
Finish—Full blued, glare-proofed

Stock No.	Caliber	Lgth. In.—Barrel	Overall	Oz.	Ea.	Fact. List EACH
2K 5706	22 lg rif	6	10½	41		*$85 00*
2K 5705	22 lg rif	4½	8½	40		*85 00*

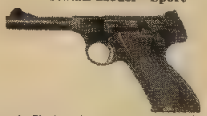
Challenger

Colt dualtone finish smooth action, fine workmanship

Caliber—22
Magazine Capacity—10 cartridges.
Sights—Fixed type
Stocks—Colt wood plastic, checkered
Finish—Dualtone blue

Stock No.	Caliber	Lgth. In.—Bbl	O'all	Lb.	Each	Fact. List EACH
2K 5702	22	4½	9	1¾		*$52 50*
2K 5703	22	6	10½	2		*52 50*

Woodsman Model—Sport



4½ inch barrel. Blued finish .22 caliber, 10 shot. This is the ideal pistol for the trapper, fisherman and hunters in general. Having 4½ inch barrel one may hand over when holster is attached to the belt without fear of the end of holster sticking into one's groin

Fixed front sight. Patridge rear sight. Fitted with New Main Spring housing, adapting this arm for use with all standard 22 Long Rifle High Speed or High Velocity Lubricated Cartridges

Stock No.	Caliber	Lgth. In.—Barrel	Overall	Oz.	Ea.	Fact. List EACH
2K 5700	22	4½	8½	26		*$70 00*

Government Model—Hammer

45 caliber, 7 shots. 5-in barrel, full length 8¼-in blued finish, checked walnut stock. Shoots 45 caliber Colts rimless automatic cartridges

Stock No.	Mfr's No.	Caliber	Oz.	Ea.	Fact. List EACH
2K 5718	A455	45	39		*$63 00*

Woodsman Model—Target

Shoots 22 Long Rifle Rem Smokeless cartridges, or all standard .22 long rifle high speed or high velocity lubricated cartridges 10 shots blued finish, checked walnut stock, 8¼-inch barrel adjustable Patridge slipped sights for elevation. Rear sight has adjusting screw Safety lock.

Stock No.	Caliber	Lgth. In.—Barrel	Overall	Oz.	Ea.	Fact. List EACH
2K 5701	.22	6½	10½	29		*$70 00*

Super .38 Hammer

38 caliber, 9 shots, 5-in. barrel, full length 8½-in., blued finish, checkered walnut grips, shoots .38 caliber Colts rimless automatic cartridges

Stock No.	Mfr's No.	Caliber	Oz.	Ea.	Fact. List EACH
2K 5717	A385	38	39		*$65 00*

Commander—Lightweight

Lightweight, nearly one pound lighter than service model gun. Hammer type hammer 9 shots, 8 shots in the clip, one in the chamber ⅜ in shorter than regular Colt. High strength Colt alloy receiver and main spring housing. Compact, durable powerful.

Stock No.	Caliber	Lgth. In.—Barrel	O'all	Oz.	Each	Fact. List EACH
2K 5714	38	4¼	7¾	26½		*$65 00*
2K 5715	45	4¼	7¾	26½		*65 00*
2K 5716	9mm	4¼	7¾	26½		*65 00*

Smith & Wesley Revolvers

K22 Combat Masterpiece

With Wide Low Spur Hammer

Caliber .22 shots, 6, barrel length, 4 inches, overall length, 9¼ inches, sights, front ⅛ inch Baughman quick draw on plain ramp, rear S & W micrometer click sight, adjustable stocks, checkered walnut with S & W monograms grooved tang and trigger; finish, S & W blue.

Stock No.	Mfr's. No.	Caliber	Barrel Lgth. In.	Oz.	Each	Fact. List EACH
2K 5777	K22	.22	4	32		$74.25

K22 Masterpiece

This 22 caliber heavy frame revolver, truly A Masterpiece. A replica of that favorite police veteran the 38 M. & P. Target Revolver. The Masterpiece embodies improvements that make for ever greater accuracy, speed and ease of handling. The barrel is precision drilled, reamed and rifled and the cylinder, with recessed head space is chambered for the .22 Long Rifle Cartridge. S. & W. Micrometer Sight—Positive two point click adjustment for both windage and elevation. One click moves point of impact 1 inch at 50 yards, ¾ inch at 25 yards. Speed Lock—Shorter, faster, easier cocking, smooth as velvet. Allows grip to remain unchanged during fast fire. Built-in Anti backlash Trigger—No adjustment screws or gadgets. Trigger travels to rear positively stops when hammer starts to fall.

Caliber 22. Number of shots 6. Length overall 11¾ inches. Finish S. & W. Blue only. Sights 1/10 or ⅛ inch Patridge front, S. & W. Micrometer rear, adjustable for windage and elevation. Magna Stock—Checked walnut. Grooved tangs and trigger. Frame 38 M. & P. target. Ammunition—Any 22 caliber R. F. Cartridge.

Note—Cylinder is especially designed with recessed head space for the highest speed cartridges.

Stock No.	Mfr's. No.	Caliber	Bbl. Lgth.	Oz.	Fact. List EACH
2K 5778	K22	.22	6	35	$71.50

One in a carton.

K22 Masterpiece

With Wide Low Spur Hammer

Caliber 22. Number of shots, 6. Barrel length, 6 inches. Length overall 11¾ inches. Weight loaded, 38½ ounces. Sights front, ⅛ plain patridge, rear S & W micrometer click sight adjustable for elevation and windage. Checked walnut magna stock (oversize) with S & W monograms. grooved tang and trigger. Has wide low spur hammer. Ammunition any 22 rim fire short, long or long rifle cartridge.

Stock No.	Mfr's No.	Caliber	Barrel Lgth In	Oz	Each	Fact. List EACH
2K 5780	K22	22	6	35		$74.25

One in a box.

K38 Combat Masterpiece

A short action target grade, holster gun for law enforcement officers. Caliber 38 S & W Special Shots, 6, Barrel Length, 4 inch. Overall length 9¼ inches, Weight loaded, 32 ounces. Sights front, ⅛ inch Baughman quick Draw on plain ramp, rear, S & W micrometer click sight, adjustable for windage and elevation. Stock, checkered walnut with S & W monograms grooved tangs and trigger. Finish, S & W blue Ammunition 38 S & W special 38 S & W special mid range, 38 special super police 38 Colt special, and 38 short Colt.

With Standard Hammer

Stock No.	Mfr's No.	Caliber	Barrel Lgth. In.	Oz.	Each	Fact. List EACH
2K 5790	K38	38	4	32		$71.50

With Low Spur Hammer

2K 5791	K38	.38	4	32		74 25

One in a carton.

K38 Masterpiece

Heavy frame revolver short cocking action micrometer click sight, ribbed barrel, anti backlash trigger feature and the new S. & W. "Knob Speed" hammer. Specially developed for rapid fire shooting. Caliber 38 S. & W special Number of shots, 6; Barrel, 6 inches. Length overall, 11¼ inches Weight, 38 ounces loaded Sights front patridge, rear S & W micrometer click sight, adjustable for windage and elevation Stocks, checked walnut with S & W monogram, grooved tangs to trigger. Finish, S & W. blue Ammunition 38 S & W special 38 special super police ,38 S & W mid range, 38 short Colt. 38 Colt special

Stock No.	Mfr's. No.	Caliber	Barrel Lgth In	Approx Oz. Each	Fact List EACH
2K 5782	K38	38	6	38	$71.50

One in a box

K38 Masterpiece

With Wide Low Spur Hammer

Caliber 38; number of shots, 6, barrel length, 6 inches, length overall 11¾ inches, weight loaded, 38½ ounces, sights, front, ⅛ plain Patridge rear, S & W micrometer click sight adjustable for elevation and windage. Checked magna stocks (oversize) with S & W monograms. Grooved tang and trigger has wide low spur hammer. Ammunition, S & W special, 38 S & W special mid range, 38 special super police 38 special, 38 short Colt.

Stock No	Mfr's No.	Caliber	Barrel Lgth. In.	Oz.	Each	Fact. List EACH
2K 5793	K38	38	6	35		$74.25

One in a box

KEY BLANKS

Full Size Cuts

DOOR KEYS

No 2419

No 2485AT

No 2485BT

Flat Steel

No. 2419—Thickness .065 in. .... Per gross 8.00
No. 2485AT Thickness .080 in Per gross 8.00
No. 2485BT Thickness .080 in. .. Per gross 8.00

Quarter gross in a box

SKELETON KEYS

Full Size Cuts

No. 01794

No. 1794

No. 1786

Malleable

Nos.	01794	1794	1786
Dia. pin, in	1⅝	1⅜	1⅛
Per gross	$8.00	$8.00	$8.00

Quarter gross in a box

MASTER KEY BLANKS

Full Size Cut

Steel

No. 677B For 3 tumbler locks Per gross $75.00

Quarter gross in a box

EMERGENCY KEYS

Malleable

For bathroom type locks.

No. 219– Fits locks Nos. 221, 229 and 233 .....Per gross $18.00

Quarter gross in a box

DOOR KEY ASSORTMENTS

Malleable, For Rim Locks

Assorted cuts and sizes

No. 12—Three dozen keys.....Per assortment $3.00

One assortment in a box

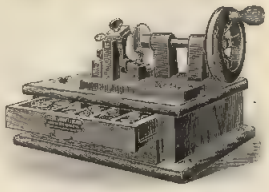
Malleable, For Mortise Locks

Assorted cuts and sizes

No. 15—Three dozen keys.....Per assortment $3.00

One assortment in a box

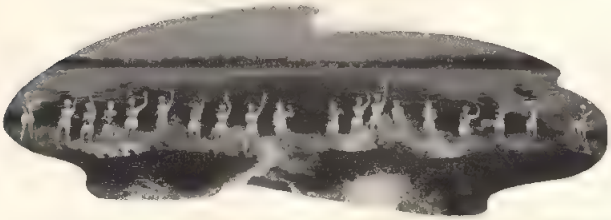
KEY DUPLICATING MACHINES



Will cut duplicate keys for pin-tumbler cylinder locks, disc-tumbler locks, and for flat lever-tumbler or warded locks, but not barrel or bit key types. Measures 6x9 inches, and stands 5½ inches high, exclusive of the cabinet. Furnished with saws, gauges and washers. Cabinet has two drawers for keeping supplies. Hand or motor operated.

No. 9101A ... Each $80.00

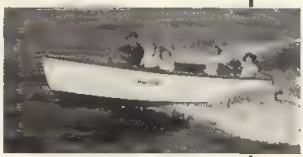
Beauty + Skill = Quality Performance



19 beautiful skiers, displaying their skill, prove that it takes know-how and looks to give a perfect performance! Champions shown above are featured in the daily water-skiing shows at beautiful Cypress Gardens, Florida, where Correct Craft are the official boats used. Correct Craft are used, because of their speed and maneuverability, at all other outstanding water-skiing schools in the United States, including the Aquacade at Chicago.

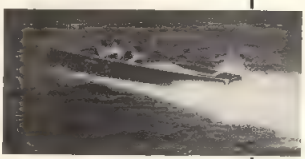
Correct Craft announces another new boat . . The 42-foot cabin cruiser with 3 cabins. 2 complete toilet rooms with showers and accommodations for 9! Now in production, it will be shown at the National Boat Show at New York City in January. Write for complete specifications and prices, if you are not able to see it.

- Now celebrating our 25th anniversary . .
- Assured deliveries from a dependable manufacturer .
- All size boat trailers built . .
- Visit our factory on U. S. #1 at Titusville or Plant #1 at Pinecastle near Orlando, Fla. . . .
- Write for complete brochure and prices on all types of boats from row-boats to cruisers.
- A few additional dealerships will be placed.
- Monel Metal gas tanks available in all models.



Correct Craft "Skipper" which you may build yourself from a complete kit
with engine $880
without engine $600

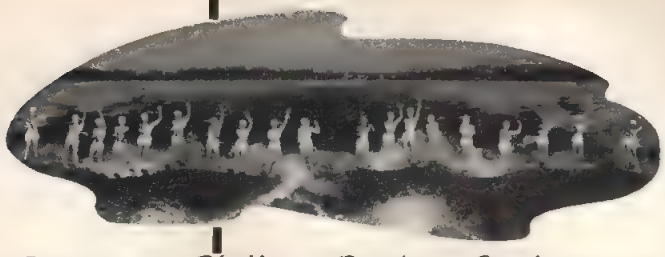
38' "Sportsman," sleeps 4 or 6; with 150 Gray marine $16322



DeLuxe Custom Runabout 18'6", dual cockpit forward, perfect in every detail. Powered with Gray 160. $3606

Correct Craft Inc.

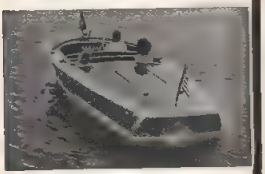
PINECASTLE AND TITUSVILLE FLORIDA



Beauty + Skill = Quality Performance

Another addition to the Correct Craft Fleet—"The Skipper." You can build this one yourself from a complete kit. It comes in a package. Without engine $800 With engine $850

Correct Craft 38' Sportsman. An ideal fishing or cruising boat. Sleeps 4 or 6. Powered with 150 Greymarine $16,322



Correct Craft Deluxe Custom Runabout, 18'9". Dual cockpit forward, perfect for water skiing and pleasure boating. Powered with a Gray 100. $3,606

19 beautiful skiers, displaying their skill, prove that it takes know-how and good looks to present a perfect performance! These champions are featured in the daily water skiing shows at beautiful Cypress Gardens, Florida, where Correct Craft are the official boats used because of their speed and manœuverability. Correct Craft are used at all other outstanding water schools and exhibitions in the United States, including the Aquacade at Chicago.

Another new Correct Craft . . . A 42' Cabin Cruiser; 3 cabins, 2 complete toilet rooms with showers, accommodating 9! Now in production. Write for complete specifications, photograph, and prices.

- 25 years of boat designing and building experience . . .
- Assured deliveries from a dependable manufacturer . . .
- Manufacturers of outboard hulls, all size fast runabouts all size cruisers to 42' and all size boat trailers . . .
- Visit our factory on U. S. 1 at Titusville, or our plant #1 at Pinecastle near Orlando, Florida . . .
- Write for complete brochure and prices on all sizes and types of boats . . .
- A few additional dealerships will be placed . .
- Monel Metal gas tanks available in all models.

Correct Craft Inc.

PINECASTLE AND TITUSVILLE FLORIDA

Bass Bait

Creek Chub's Baby Pikie

Similar to the Pikie Minnow, except smaller. Has wicked wiggle and all the good qualities of the larger lure.

Stock No.	Mfr's No.	Color	Fact. List EACH
2V 567	900	Pikie, Scale Finish	$1.30
2V 568	901	Nat. Perch, Scale Finish	1.30
2V 569	902	White and Red	1.30
2V 570	928	Silver Flash	1.30

One in a box. One dozen in a carton

Creek Chub Pikie Minnow

This lure so closely imitates the Pikie Minnow in shape, color and movement that the combativeness of the bass is aroused and they strike to kill. Its big wiggle, unique shape and color make it a great bass killer. 4¾ inches in length and weighs ¾ ounces

Stock No.	Mfr's No.	Color	Fact. List EACH
2V 543	700	Natural Pikie, Scale Finish	$1.35
2V 544	701	Natural Perch, Scale Finish	1.35
2V 545	702	White With Red Head	1.35
2V 546	728	Silver Flash	1.35

One in a box. One dozen in a carton.

Creek Chub Midget Ding Bat

Right size and action for the light rod user. Fast acting and smooth running lure especially suited for stream fishing and for small bass.

Stock No.	Mfr's No.	Color	Fact. List EACH
2V 636	5200	Nat. Pikie Scale, Brown Legs	$1.30
2V 637	5201	Nat. Perch Scale, Green Legs	1.30
2V 638	5202	White Body, Red Head	1.30
2V 639	5218	Silver Flash Body, Red Legs	1.30

One in a box. One dozen in a carton.

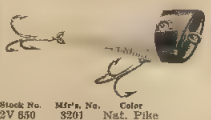
Creek Chub—Beetle

3800 Series. This lure is made to represent a water beetle and travels quite deep. It should be retrieved at a moderate to fast speed. It never revolves or twists line. Always rides right side up. Non fouling hooks. The extended rear hook in back of two spinner blades are a sure cure for "short hitters." One of the best killers ever made. Length of body, 2⅝"; weight, ¾ oz.

Stock No.	Mfr's. No.	Color	Fact. List EACH
2V 606	3809	Lum, Red Head	$1.60
2V 607	3818	Silver Flash	1.60
2V 608	3850	Yellow	1.60
2V 610	3852	White, Red Head	1.60
2V 609	3851	Green	1.60

Each in attractive lithographed box.

Creek Chub Plunker



A surface lure with a noisy, disturbing action. Making a "plunking" sound when retrieved. Length, 3 inches; weight, 5/8 oz.

Stock No.	Mfr's. No.	Color	Fact. List EACH
2V 650	3201	Nat. Pike	$1.20
2V 651	3202	White & Red	1.20
2V 652	3218	Silver Flash	1.20
2V 653	3219	Frog	1.20
2V 654	32 Spec	White Body with Blk Head	1.20

One in a box.

Creek Chub—New Surface Ding Bat

Remarkably weedless with hook points turned up. A sure hooker. Body length 1¼ inches; weight ⅜ ounces.

Stock No.	Mfr's. No.	Color	Fact. List EACH
2V 628	5401	Nat. Perch Sca, Green Legs	$1.35
2V 629	5404	Gold Shiner, Yel. Legs	1.35
2V 630	5418	All Black	1.35
2V 631	5418	Silver Flash Bdy, Rd Legs	1.35

Bass Baits

Creek Chub-Ding Bat

Moderately small sized medium weight are that will cast easily and travel deeper than the average semi surface plug. The fluttering hair legs are an entirely new idea in plug lures. They produce an erratic motion entirely different from a lure but equipped with them. An especially live and attractive bait for all game fish. Length 2 inches. Weight ⅝ ounce.

Stock No.	Mfr's. No.	Color	Fact. List EACH
2V 617	5102	White Body, Red Head	$1 75
2V 618	5104	Golden Shiner Scale, yellow legs	1 35
2V 619	5118	Silver Flash Body Red Legs	1 35
2V 620	5101	Natural Perch Scale Green Legs	1 35
2V 621	5113	All Black	1 35
2V 616	5100	Natural Pike Scale, Brown Legs	1 35
2V 622	5119	Frog	1 35

Each plug in a box, one dozen in a carton

Creek Chub—Spinning Darter

Wiggles, wobbles, dives with life-like near the surface darting action. Gets the big ones.

Stock No.	Mfr's. No.	Color	Oz. Each	Fact. List EACH
2V 640	9014	Yellow Spotted	⅛	$1 10
2V 641	9018	Silver Flash	⅛	1 10
2V 642	9019	Frog	⅛	1 10

Creek Chub—Spinning Plunker

A midget like the old favorite. This bobbling, fussy rascal with the kerplunking sound is sure to get the whoppers.

Stock No.	Mfr's. No.	Color	Oz. Each	Fact. List EACH
2V 643	9206	Pikie, Scale Finish	⅛	$1 10
2V 644	9201	Perch, Scale Finish	⅛	1 10
2V 645	9202	White, Red Head	⅛	1 10
2V 583	9218	Silver Flash	⅛	1 10
2V 584	9233	Black, Scale Finish	⅛	1 10

Creek Chub—Spinning Pikie

This baby carries on a great heritage. A wiggling fool and a strong killer.

Stock No.	Mfr's. No.	Color	Oz. Each	Fact. List EACH
2V 585	9300	Pikie, Scale Finish	¼	$1 10
2V 586	9301	Perch, Scale Finish	¼	1 10
2V 587	9302	White, Red Head	¼	1 10
2V 588	9318	Silver Flash	¼	1 10
2V 589	9333	Black, Scale Finish	¼	1 10

Creek Chub—Spinning Jointed Pikie

A fast steady wiggler. Tantalizes and catches all kinds of game fish.

Stock No.	Mfr's. No.	Color	Oz. Each	Fact. List EACH
2V 660	9400	Pikie, Scale Finish	⅛	$1 25
2V 661	9401	Perch, Scale Finish	⅛	1 25
2V 662	9402	White, Red Head	⅛	1 25
2V 663	9418	Silver Flash	⅛	1 25
2V 664	9433	Black, Scale Finish	⅛	1 25

Hot Shot Lures

The D100 series Hot Shot is the diver mode. When cast out will sink at the rate of 1½ feet per second. For deep down fishing. Will not plane under ordinary trolling speed.

Stock No.	Mfr's No.	Color	Oz. Each	Fact. List EACH
2V 900	D100	White Metallic	⅝	$1 50
2V 901	D104	Yellow Metallic	⅝	1 50
2V 902	D107	Black and White	⅝	1 50
2V 903	D108	Perch	⅝	1 50
2V 904	D110	Silver Scale	⅝	1 50
2V 905	D111	Yellow Scale	⅝	1 25

One in a box. One dozen in a carton.

Hot Shot Lures

The M100 series Hot Shot, for medium depth. When cast out it will float on the surface, retrieve it and it goes under water and as far down as 8 or 10 feet depending on how fast you retrieve it. Darts, dives and wobbles.

Stock No.	Mfr's No.	Color	Oz. Each	Fact. List EACH
2V 906	M100	White Metallic	⅝	$1 25
2V 907	M101	YellowM etallic	⅝	1 25
2V 908	M104	Mullet	⅝	1 25
2V 909	M106	Red Head	⅝	1 25
2V 910	M107	Black and White	⅝	1 25

One in a box. One dozen in a carton

Hot Shot Lures

The SM200 series Hot Shot, ⅝ oz. plug is for surface medium depth

Stock No.	Mfr's. No.	Color	Oz. Each	Fact. List EACH
2V 690	SM200	White Metallic	⅝	$1 25
2V 691	SM201	Yellow Metallic	⅝	1 25
2V 693	SM203	Frog	⅝	1 25
2V 696	SM206	White Red Head	⅝	1 25
2V 698	SM208	Perch	⅝	1 25
2V 699	SM209	Black	⅝	1 25
2V 700	SM210	Silver	⅝	1 25

Hot Shot Lures

The M300 series Hot Shot ⅛ oz. plug that floats, darts, dives and wobbles. For trolling, casting and especially spinning.

Stock No.	Mfr's. No.	Color	Oz. Each	Fact. List EACH
2V 911	M300	White Metallic	⅛	$1 10
2V 912	M301	Yellow Metallic	⅛	1 10
2V 913	M303	Frog	⅛	1 10
2V 914	M306	White, Red Head	⅛	1 10
2V 915	M308	Perch	⅛	1 10
2V 916	M309	Black	⅛	1 10
2V 917	M310	Silver	⅛	1 10

One in a box. One dozen in a carton

Hot Shot Lures—Spinning

The M500 series Hot Shot is a 1/10 ounce plug for bass fly rod use can be picked up off the surface with ease. It is an excellent trolling lure and will go down 8 or 10 feet. Can be fished down stream to where you want it. It floats, darts, dives, wiggles and wobbles.

Stock No.	Mfr's No.	Color	Oz. Each	Fact. List EACH
2V 918	M500	White Metallic	1/10	$0 95
2V 919	M501	Yellow Metallic	1/10	95
2V 920	M503	Frog	1/10	95
2V 921	M506	White, Red Head	1/10	95
2V 922	M508	Perch	1/10	95
2V 923	M509	Black	1/10	95
2V 924	M510	Silver	1/10	95

One in a box. One dozen in a carton

Baby Hot Shot Lures

Made of plastic this lure has built-in action. Its rugged construction assures taking of pan fish and bunkers too. A sinking type lure for all waters.

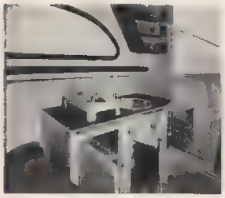
Stock No.	Mfr's No.	Color	Oz. Each	Fact. List EACH
2V 680	700	White Metallic	1/20	$0 95
2V 681	701	Yellow	1/20	95
2V 682	703	Frog	1/20	95
2V 683	706	White-Redhead	1/20	95
2V 685	708	Perch	1/20	95
2V 686	709	Black	1/20	95
2V 687	710	Silver	1/20	95

Twelve in a box

Now you can *Cruis Along* in Luxury!

Big, roomy cabin, ocean-s of view through overs zed rubber gasketed weather proof marine windows. Two big berths with restful mattresses. Let landlubbers swelter while you spend delightful nights aboard

Swift... Seagoing... Completely equipped... Moderately priced



Full-sized galley complete for piping hot meals aboard. Stove, running water, sink, dish and glass racks, shelves, roomy ice box, dry storage space. Hanging lockers, underberth storage space, chart rack and large storage compartment under rear seat.

Complete for Comfort. Sea Clo marine toilet in a separate private compartment (folds away easily for extra cabin space when not in use).

Here is your dreamboat!... *A complete Home-on-the-water* for the whole family—for less than a couple of landlubber vacations. Handles easily—no crew needed. Make every weekend a vacation! And make every vacation a glorious experience. Swim, fish, sleep, eat on the water. See your Cruis Along dealer today or write today for complete information on 1951 models now available.

DeLUXE 22 A fast, deep sea-worthy hull... speeds to 20 MPH with a sweet, purring motor... a cockpit roomy enough for the whole crowd without crowding. Be the Captain of your own cruiser.

DeLUXE 24 More speed! More space! Even greater seaworthy comfort, extra headroom, self bailing cockpit. Speeds up to 30 MPH depending on engine option. Completely equipped for luxurious cruising.

SPECIAL 22 Same motor, hull, superstructure, basic equipment at a basic price.

SPECIAL 24 Same motor, hull, superstructure, basic equipment at a basic price.

Prices F.O.B. our yards subject to change.

Write Dept. MB1 M. M. DAVIS & SON · Solomons Md. · *Boat Builders for over 70 Years*

made of—Samoa, Fiji, Australia, Makassar, Bali, Batavia, Singapore, Ceylon, across the Indian Ocean to Mombasa, Africa; Zanzibar, down the African Coast to the Cape of Good Hope and back up the West Coast and into the Congo River. From Africa they cut across the Atlantic to Rio, a 3,400 mile run, then north to spend the past summer cruising the Chesapeake, Long Island Sound and New England waters.

Proceeding south they enjoyed the beauties and relaxation of the Inland Route. They left Daytona for Miami, and will cruise the Bahamas and West Indies before heading for Panama. Then California—and home. Perhaps they'll write a book—we hope.

George Locke, naval architect of Daytona Beach, recently announced the sale of his 56-foot schooner Elsadon, to Ben Laning of St. Petersburgh, Fla., a retired naval officer. In turn Captain Locke purchased the 50-foot centerboard sloop Rainbow from Claude Chippenfield of Canton, Ohio. At present Rainbow is tied up at the Halifax River Yacht Club in Daytona Beach.

Before a crowd estimated at 10,000 spectators Mabry Edwards, veteran Jacksonville outboard racer, captured top honors in the first annual Tangerine Bowl Regatta, which was staged on Lake Ivanhoe, Orlando, Fla., the first Sunday in 1951. The ten-race program officially opened the 1951 Florida grapefruit racing circuit. The regatta had been postponed one week because of bad weather and rough water.

Edwards won four heat races and placed second in a fifth event. His showing earned him a leg on the annual Orlando Chamber of Commerce trophy won last year by Tommy Hagood of Orlando.

Over 80 entries took part in the competition which was sponsored by Orlando Elks Lodge 1079. Roy W. Parker was chairman of the regatta.

Coast Guard Auxiliary Revived

Dana T. Bowen of Cleveland, Ohio, and Daytona, was installed December 28 as Captain of Coast Guard Auxiliary, Division No. 1. There ceremony was performed at the Lake Beresford Yacht Club, near DeLand. Captain Bowen is well known to hundreds of yachtsmen as the author of two fine historical books about the Great Lakes, "Lore of the Lakes" and "Memories of the Lakes." They are a "must" for any nautical library.

Aside from Captain Bowen, Winch W. Simpson was installed as vice captain, and Fred L. DeMotte as training officer of Division 1. Harlow Merriday was installed as the new captain of Division 4.

The new rosters of officers for the Lake Beresford Yacht Club includes William A. Ritzi, commodore; Lee L. Riggs, vice commodore, L. B. Baker, training officer; Mary Jo Winton, secretary and Valentine Standing, treasurer.

Captain Forrest A. Rhoads, USN, commander of Sub Group 4, Florida Group, Atlantic Reserve Fleet, based at Green Cove Springs on the St. Johns River, retired December 1 after 34 years of active naval service. Captain Rhoads, whose home is in Kansas City, Mo., began his service career in 1916 as an apprentice seaman. He and Mrs. Rhoads were given a farewell party by officers of his command.

Coast Guard Checks Up on Boats

The Coast Guard picket boat CG-38507, in charge of Chief Boatswain's Mate Earl Tingle, recently did some extensive cruising on the St. Johns and Oklahoma Rivers, checking the safety equipment, registration, etc., of fishing camp boats and yachts. Also speeding complaints and complaints on traffic violations were investigated. It was the first upper river patrol of the St. Johns since the war.

According to Lt. Commander C. W. Quinby of Jacksonville, captain of the port and officer in charge of marine inspection, many boats in the Jacksonville area have been operating without numbers, and the owners are to be penalized if violations continue.

Commander Quinby pointed out that numerals are required on all craft with inboard motors, and on those over 16 feet long if equipped with outboard motors.

Commerce at Jacksonville for 1950 taxed the port terminal facilities and preliminary estimates indicate that all previous records of tonnage handled will be surpassed, according to a report compiled by the directors of the Jacksonville Traffic Bureau by Director of Port Traffic J. Roger Stanfield.

Figures were based on tabulations of cargoes through October, and estimates of the final two months. Imports led the field with an increase amounting to more than 50 per cent over 1949. They totalled 680,567 net tons. Exports amounting to 148,903 net tons represent an increase of 16 per cent over 1949. The total foreign commerce handled through the port was the largest in history.

Incidentally a German flag was seen in Jacksonville recently for the first time in nine years, or since the United States went to war

FILL SAFELY
WITH AN EAGLE FILLER

A HINT TO WISE BOATERS
"Get your *EAGLE* Filler Cans
NOW for carefree 1951 boating"

This Flexo-Spout Eagle Filler Can has proved a safe, convenient essential aid to thousands of boaters. It is squat, easy-to-stow, strong and durable. Helps make your cruises a pleasure and free from empty tank troubles.

Automatic supply valve and air vent close when spout is returned to holder, preventing leakage and fumes. Stows away easily in peak or under a thwart. Insures a safe, clean bilge. Available in 2½ and 5 gallon capacities. You'll want this handy filler for the 1951 boating season. We recommend that you get yours *NOW!*

ALL-PURPOSE EAGLE
UTILITY FILLER CAN
(with or without Lu Mar Quick-Action Pump)

These cans fill the need for all-purpose usage for outboard motors, stoves and heaters in cottages or trailers, power lawn mowers, etc. Inexpensive and practical — guaranteed leakproof 1 2 3 to 5 gallon capacities (with Lu Mar Pump 2 to 5 gallon capacities)

See Your Marine Supply Dealer or write

EAGLE MANUFACTURING COMPANY
WELLSBURG • WEST VIRGINIA

Assemble your own Boat
It's fun—you save half the cost

All Brass Screws

• Over 20,000 Sea Shells in use. Sturdy and smart the Sea Shell is a "natural" for yachtsmen, cottagers, and fishermen. You can row it, tow it, sail it with or without, even convert it for skiing. Easy to assemble from precut wood and waterproof plywood parts. Brass screws throughout. All you need is paint, simple hand tools, a few free evenings of time. Thoroughly tested, fully guaranteed. The Sea Shell is roomy and comfortable. Length 8 ft. Beam 4 ft. Depth 18 in. Weight 65 lbs. Ample freeboard for extra safety.

SEND FOR FREE BOOKLET

See
Hagerty
Sea Shells
at Boat and
Sportsmen Shows!

HAGERTY, 212 Bay St., Cohasset, Mass.
☐ Send FREE booklet, dealer's name.
☐ Send Sea Shell freight collect. Enclosed is check or money order for $85.
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with Germany. The vessel flying the flag was the SS Gluckauf, a small freighter owned by the Stinnes Company of Bremen in West Germany. The Gluckauf discharged a cargo of steel and then sailed for Miami and New Orleans.

All officers were re-elected for 1951 by the Jacksonville Beaches Yacht and Fishing Club. They are I. D. Sams, commodore; A. G. Penman, vice commodore, and J. C. Dickinson, purser. New board of directors are: Earl Kite, Frank Porfire, P. D. Carmichael, Ray Aiken, Brad Arthur and Otto Hahn. The officers also serve on this board.

Kissimmee Yachtsmen Go Exploring

You can't accuse Kissimmee yachtsmen of being rocking chair sailors. They got up a boat-a-cade awhile back and took a four day trip down the Kissimmee River to Okeechobee City, and the approximately 200 persons who took the jaunt got back burned as brown as Seminoles. It was a kind of exploration trip and the route led through some of Florida's wildest and most picturesque areas. Dick Makinson, an old-timer who knows all the river twists, originated the idea and the project turned out to be a great success.

Just about every type of boat took part in the adventure, from rowboats and canoes equipped with outboard motors, to a 50-foot cabin cruiser. There were about 100 craft in the armada and most of them carried on to the finish. Some fine new boating areas and fine places for black bass fishing were discovered. The trip created so much interest that now there is talk of dredging part of the route, making it shorter and easier to navigate. Plans also are underway to put markers up all the way from Kissimmee to Okeechobee.

Well, it's refreshing to hear of a Florida yachting organization that really woke up and did something. The majority of them put too much stress on canasta and cotillions.

A University of Florida artist, Prof. Edmund Lewandowski, has just completed two large murals to adorn the bridge deck salons of two new luxury liners, the SS Independence and the SS Constitution of the American Export Lines. The murals, five and a half feet by 16 feet, depict the glorious age of sail. The subjects are the old sailing ships, Constitution and Independence. The mural of the Independence will be placed aboard the $25,000,000 ship of that name which was recently launched at the Quincy, Mass., shipyards, and will sail on its maiden voyage in February.

Other murals of Prof. Lewandowski grace salons of the SS President Garfield and the SS President Van Buren.

The total cruising mileage to date of Frank P. Huckins of Jacksonville is 146,062.7 miles.

MAXWELL C. WHEAT

☆ ☆ ☆

AT THE CHANGE OF THE WATCH

(Continued from page 14)

world we put up with annoying leaks when there are so many *perfect* remedies. (That's what the manufacturers say.)

One evening is not enough if we read all the small print and a time finally arrives when the wife waxes indignantly about our one-track minds. . . . So we close the catalog with a sigh and take her to the movies like we promised. But it has subtly done its work because even though it is still midwinter we are already planning the boating season to come.

☆ ☆ ☆

ELECTROLYSIS SHAFT COLLAR

Joe's Flagler Marine Sales of 404 N.W. North River Drive, Miami, Florida, announce a new electrolysis collar for use on propeller and rudder shafts, etc. known as the Snug-Fit Electrolysis Collar. This is a streamlined die casting of zinc, made in two halves for easy installation.

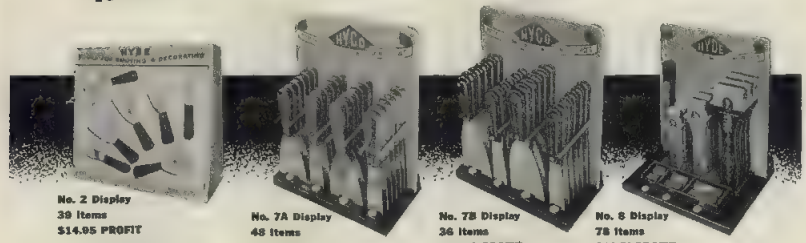
The collar is designed so that there are no external protrusions to cause radial turbulence, and the various sizes are so arranged that the collar does not increase the frontal area of the strut.

The two halves of the collar are held together by two set-screws set in a counter-bored recess, and the halves are located by dowels around the set-screw holes, enabling the collar to be installed under water by "feel" if necessary.

Sung-Fit collars are available for shaft sizes from ¾-inch to 2 inches, and a series of precision die-cast bushings are provided so that only three different collar sizes will accommodate every shaft size from ¾-inch to 1½ inches.

FREE PROMOTION AIDS FOR HYDE PUTTY KNIVES AND SCRAPERS

Hyde offers a variety of beautiful hardwood displays—colorful, compact—featuring the famous Hyde Putty Knives, Scrapers and Wood Scrapers. They're fast-moving items—priced for 50% mark-up, quick turnover. Other Hyde products include filler-type paint rollers, wallpaper removers, linoleum knives, roofing knives, sloyd knives, butcher knives, palette knives and spatulas. Write for full information—on Hyde products and promotion aids.



No. 2 Display
39 Items
$14.95 PROFIT

No. 7A Display
48 Items
$8.80 PROFIT

No. 7B Display
36 Items
$10.00 PROFIT

No. 8 Display
78 Items
$16.51 PROFIT

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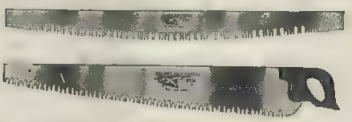
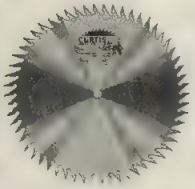
DEPENDABLE SERVICE TO AMERICAN INDUSTRIES SINCE 1922



Curtis "Fast Cutter" crosscut saws have tough temper—are oil hardened.



Curtis "SPEED-EE CUT" cordwoods come set and hand filed ready for use. They don't wobble.

Send for complete illustrated catalog SA-97.

CURTIS SAW DIVISION

OF CURTIS MANUFACTURING COMPANY

Established 1854

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Auger bits for every purpose

Midway Mirbrite Bits "preferred by all who want the best"

Auger bits for electric drills 5/16" to 1 3/16"

Standard auger bits 17 sizes (4/16" to 2 4/16")

*Mirror Bright

Midway THE MIDWAY TOOL CO., INC.

Sales Office and Factory Melvin, Ohio

BEFORE YOU BUILD—

(*Continued from page 107*)

perhaps a rough sketch. After much consideration and quite definite ideas select a designer who has produced boats along the lines of your taste. Most all designers have a specialty for which they gain prominence and they are the logical ones to go to. They may have "stock plans" (prepared plans for sale at low cost) or you may have to hire their services to prepare plans of the boat you've "dreamed up."

In my opinion the fee and advice of an experienced designer is a small amount to pay to insure yourself of having a worth-while investment. Surely $25 to $50 for "stock plans" of boats ranging from 20 to 30 feet and representing investments between $3,000 and $16,000 is little enough to pay for the insurance of satisfaction. And the modest fees charged by designers for custom design work, in proportion to the total amount of money invested, are also reasonable.

After securing plans from the designer, be they "stock," custom or otherwise, study these until you know more about what goes into the making of the boat than the designer himself. Every detail of the design should be as familiar in your mind as your own name!

When you are thoroughly acquainted with potential difficulties and problems that may arise, go about the *laying down of the lines full size*. A smooth, flat area must be used for this task. I suggest, if you haven't a smooth floor that can be painted white or light gray, that you secure enough sheets of inexpensive beaver board. This material is ideal for drawing with pencil and could not be beat if made specifically for the job at hand. The number of panels will be determined by the size of boat, naturally. It is available in 4-foot widths and in various lengths. The board may be used, after the boat is completed, for other purposes.

No matter if the boat is V bottom, round bottom, planked of conventional materials or of plywood construction, *many* hours of guessing and inaccurate work will be saved by laying down the lines full size and *using* them to advantage.

Why lay down the lines? Well, this has been covered many, many times in past issues of MoToR BoatinG and setting down the reasons in detail would require a long article. But, for many reasons, it is the *most important single task* to be done in going about building a boat and having the finished boat like the designer's drawings when completed.

Briefly it does these things: corrects errors made by the designer in making up the table of offsets; enables the fairing of all lines where the slightest inaccuracy, not seen in small scale drawings, will show up when drawn full size; gives accurate and proper half breadths and heights for drawing station sections, enables templates to be made for stem, knees, horn timber, transom, keel and all other such structural members, facilitates proper positioning of rabbet, bearding line, and back rabbet without ever touching, or risking the destruction of, valuable building stock, enables all bevels to be secured prior to any *actual* setting up of structural members (a great advantage in all boats, naturally, and particularly so on V bottom designs where the frames may be cut on a band saw with the bevels marked and sawn to shape *before* being set up); and assists a great deal in closely acquainting the builder with all phases of the building problems that lie ahead.

There are other reasons, too, but the above gives sufficient evidence of the importance of the task of laying down the lines full size. *All* dimensions should henceforth be taken from the mould loft (full sized) drawings. The designer's blueprints should be referred to for interior layout, details of construction and such forth. Sheer, chine rabbet (if any), keel, shaft angle, waterlines and others are all taken from the full sized drawings and *not* scaled off the blueprints.

And so, with the lines laid down (drawn) full size with great care taken in this work the first step has been correctly taken toward the completion of a boat which will be, in every way, after the manner of the designer's drawings—and after the manner of your own wishes.

I would say that other factors, not necessarily listed in relative importance but essential in the ultimate creation of a fine piece of work, will be accuracy in measuring, care in setting up building stocks; assuring keel, stem, stern, etc., are plumb and square with the respective members, care and pains taken in making *all* joints, keeping tools ever sharp; carefully looking over work for errors as the building progresses; intelligent use of materials; proper application of materials; *following the plans in spirit and in actuality;* and, lastly, *pride* in the work at hand.

I feel the last is even more important than the drawing of the lines full size for, without pride, the boat had better not be built.

J. A., Darien, Conn.

(*Continued on page 304*)

PACKAGED BOAT KITS
23 MODELS-SAVE 50%
EASY TO ASSEMBLE
FREE CATALOG
"HOLIDAY" EXPRESS CRUISER $330
Racers 12'-14' $135. up
CUSTOM-CRAFT
★SEMI-FINISHED BOATS (READY TO PAINT)
★CUSTOM-FINISHED BOATS (READY FOR THE WATER) FACTORY TO YOU
● NOW all 23 famous Packaged Boat models are available in our new "Custom-Craft" line. Factory assembled by craftsmen, finished by master painters. If you want the best in boats, buy "Custom-Craft."
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BOAT PLANS-PATTERNS
Over 50 modern plans and full size patterns. Racing classes, cruisers, inboards, outboards, sail – by famous designers. 6' – 30'. CATALOG 35¢. Catalog and boat building handbook, $1.00
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BOAT HARDWARE
Send 10¢ for literature on small boat hardware, paints and finishing materials. Literature and book "How to Paint Your Boat" 35¢.
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Gas Pistol

Schimel

Revolutionary New... GAS PISTOL
by
SCHIMEL
Every sportsman will want one - - the ideal target and small game side-arm designed and built by Schimel in a longer type grip with all the balance, feel, beauty and accuracy that the names imply

Authentic luger type gas pistol. Has balance, feel beauty and accuracy. Hammerless recoil-operated. New patent principles of gas release and loading chamber as in a new deeper cup-shaped chamber gave a direct straight pull. Perfect seal loading but no slide lock or catches as are CO2 guns now on the market today. Required no movement only to load. Single shot, shoots either .22 caliber pellets or .22 caliber lead ball shot. Molded grips, adjustable rear sight. Precision built. Barrel length 6 inches overall length 9¾ inches maximum width 1¾ inches, overall height 6¼ inches. Finish, gun blue

Stock No.	Mfr's. No.	Caliber	Barrel In.	lb Each	Fact. List EACH
2K 5675	GP22	.22	6	2	$20.00

Two in a carton.

Daisy Air Rifles

Twin Barrel Pump-N-Scope Target Set

Set includes No. 25 Daisy pump gun with twin interchangeable barrels one for steel BB's, the other for giant cork BB's, 2 power magnifying scope sight already mounted on gun, 350 bull's eye BB's, 10 special giant cork BB's 6 special cardboard indoor targets, ball ringing metal target for indoor, outdoor use supply official Daisy target cards, scope caps and marksmanship manual. Packed in a cardboard counter display

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2K 5605	325	7½	$11.50

One in a carton; ten in a case.

Gun-N-Scope Target Outfit

Daisy

Complete outfit Red Ryder carbine, 2 power scope, ball ringer target, target cards to fit, generous supply of BBs, shooting manual and scope instructions. Sturdy corrugated carton

Stock No.	Mfr's. No.	Lgth. in.	lb Each	Fact. List EACH
2K 5604	811	37	6½	$9.35

Ten in a shipping carton.

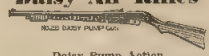
Daisy Defender—Repeater

This forced feed repeating rifle is made of fiberon. It looks, feels and handles like a man-size rifle. Full oval stock full fashioned forearm are finished to give the appearance of walnut. Equipped with peep sight also adjustable for windage and elevation. Sling strap attached to barrel at muzzle's back. Perfect for target work. Lever cocking action pistol grip, non-slip butt grooves. Secret pocket in butt of stock has sliding door, holds shot, private possessions

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2K 5609	141	3	$8.35

One in a box, 10 in a carton.

Daisy Air Rifles



Daisy Pump Action

The fastest selling high grade air rifle built, now further improved. A 50 shot repeater, with forced feed permitting easy firing from the shoulder. Cocks easily by simply pulling the slide towards the stock. Adjustable rear sight and hand-milled "non-slip" grooves on butt of its pistol grip. American walnut stock. All metal parts gun blue. Take-down model

Stock No.	Mfr's. No.	Lgth. in.	lb Each	Fact. List EACH
2K 5607	25	38	3½	$8.35

Daisy—Red Ryder Carbine—1000 Shot

Blued steel 1000 shot carbine, the gun with the golden bands, carbine ring and lightning loader. Full length long curved buttstock carbine hand hold. Walnut finish. Adjustable, double notch rear sight for long range or snap shooting.

Stock No.	Mfr's. No.	Overall Lgth in.	lb Each	Fact. List EACH
2K 5603	111	38	3½	$6.00

One in a box.

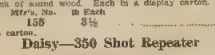
Daisy 1000 Shot—Repeater

A 38 inch gray forged steel rifle with gun blued metal parts and well finished stock of sound wood. Each in a display carton.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2K 5608	155	3½	$5.25

Six in a carton.

Daisy—350 Shot Repeater



A lever-action repeater with blued metal parts and full-size, hardwood stock. Thirty-three inches long. Individually packed in corrugated carton.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2K 5610	102	3	$4.85

Ten in a carton.

Daisy Air Pistols

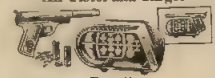
Targeteer Air Pistol Set

Shoots Accurately To 12 Feet

Complete Outfit includes Targeteer Pistol, Big 10-inch blued steel bull pistol, magazine holds hundreds of shot, accurate to 12 feet. Backstop, carton becomes backstop. Set it up in the living room for parties, competitive fun, practice. Shot—Copper-plated caliber .118 specially made for Targeteer 500 packed with each outfit. Spinning "Birdie" Targets -Double bull's-eye, made of steel and balanced on a wire, spin when you pick 'em. Standard Paper Targets—in pads. Score your shots. Targets fit slots in carton backstop.

Stock No.	Mfr's. No.	Caliber	Lgth In.	lb Each	Fact. List EACH
2K 5620	118	.118	19	18	$3.80

Air Pistol and Target



Targette

Consists of chromed targetteer (low velocity) pistol plastic gallery with plastic spinner targets, 500 rounds tiny BB ammunition. Safe for adult and juvenile color ambient indoors.

Stock No.	Mfr's. No.	Caliber	Lgth. In	lb Each	Fact. List EACH
2K 5621	320	.118	10	2	$3.90

Ten in a standard package

Daisy—Target Pak

Contains 165 bullseyes plus shooting manual. A large colorful package [illegible]. Each package contains 75 sheets of practice targets, 2 bullseyes on each sheet. Plus 15 official NRA targets. Plus 2-color, 4 page folder with shooters manual, backstop instructions, National Rifle Association details.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2K 5615	78	10	$0.60

Wilson Fielders' Gloves

WILSON CAN'T BE BEAT FOR TOP QUALITY BASEBALL EQUIPMENT.

All Wilson Gloves are available for left hand throwers. Specify F. H. for same when ordering.

The Sensational New Wilson Ball Hawk

WILSON PROFESSIONAL BALLHAWK
(Web Type)

Design similar to **6KA2170** Has a new **one-piece pitcher's type web for concealing the ball.** Very popular with **major league pitchers** and widely used by infielders Made of **good grade, tan color cowhide. Hand formed** jute felt padding. Fully oiled Rawhide lacing at wrist strap. Retail 10.00
No. 6KA2200. Dealer's each 6.40
Less 2% net **6.27**

THREE FINGER CONSTRUCTION

In the **Wilson Ball Hawk,** you have the LAST WORD in a fielder's glove for today's spectacular play . . . It's the biggest sensation in modern baseball **Entirely new development in fielder's gloves.** The LAST WORD in scientific design. Big leaguers have given the "ball hawk" their stamp of approval.

WILSON PROFESSIONAL BALLHAWK
(Kurv Form Fingers)

Made of **high grade, tan color cowhide** in a medium size Streamlined, **Kurv Form fingers. Hand formed** jute felt pad Fully oiled and grease set pocket Flat leather binding Rawhide lacing at wrist. Adjustable leather wrist strap. Retail 12.25
No. 6KA2170. Dealer's each 8.00.
Less 2% net **7.84**

Wilson Youth's Ball Hawk

Incorporates many of the superlative features of the regular Ball Hawk models. Designed especially for younger players. Made of good quality tan color cowhide with high grade felt padding New, one piece pitcher's type web. Fully oiled. Leather laced wrist. The last word in a glove for youngsters
Retail 5.95
No. 6K2260. Dealer's each 4.00.
Less 2% net **3.92**

NEW WILSON BALLHAWK
Boy's Model

Good quality glove leather—sheep-skin half lined—jute pad with stuffed heel Tan cambric binding Fully oiled one-piece pitcher's type web Retail 4.95
No. 6KA2270. Dealer's each **3.30.**
Less 2% net... **3.13**

WILSON DICK WAKEFIELD FIELDERS' GLOVE

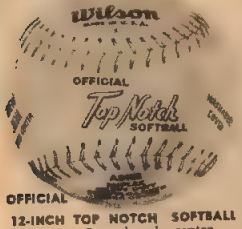
Dick Wakefield Model — **Large size. Streamlined Kurv Form fingers. Good quality tan cowhide Hand-shaped pad** and grease set pocket Has a broken-in feel. **New, one piece pitcher's type thumb web for concealing ball.** Leather laced wrist Retail 13.25
No. 6KA2140. Dealer's each **8.50.** Less 2% net **8.43**

Wilson Ted Williams Fielder's Glove

Ted Williams Autograph Model **Large size. Sturdy, tan color cowhide.** Hand formed, deep grease set pocket Jute felt padding Fully oiled Double tunnel leather thumb trap Leather laced wrist
Retail 11.25.
No. 6KA2210. Dealer's each **7.00.**
Less 2% net **6.86**

NEW WILSON BALLHAWK - 3
Youth Design

Medium size glove made of sturdy glove cowhide — fully oiled one-piece pitcher's type web. Plastic lacing at wrist—felt padding—flat plastic binding —ideal glove for youthful players
Retail 8.00
No. 6KA2250. Dealer's each **5.20.**
Less 2% net. **5.09**



12-INCH TOP NOTCH SOFTBALL

New Java kapok center.
Pre-vulcanized Inner cover — washable white cover, double hand stitched with white wax thread Retail 3.35
No. 6KA9100. Dealer's, each **2.40.** **2.43**
Less 2% net

Wilson Baseball Bats

Famous Player Models —Natural white finish **Powerfused** by a special process to minimize chipping and peeling and to prolong life of bat. Assorted models and lengths to the dozen Retail 3.65
No. CKA1300. Dealer's each net **2.74**

Famous Player Special Collegiate and Scholastic Models—Lightweight Saddle brown finish **Powerfused for greater strength** and driving power. Assorted models and lengths to the dozen. Retail 3.45.
No. 6KA1320. Dealer's each net **2.55**

All Star Model Natural white finish. Assorted models and lengths to the dozen Retail 2.35
No. 6K1340 Dealer's each net **1.79**

BASEBALL BATS NOT INCLUDED IN OUR PREPAID FREIGHT OFFER

Wilson FAMOUS TENNIS RACKETS

Famous-Player Rackets—Endorsed by Champions—Chosen for Championship Play

More major championship winners use Wilson Rackets and Tennis Equipment than any other makes, including titleholders in Men's and Women's National Singles and Doubles, and Wimbledon tournaments.

No greater tribute could be paid to the quality and craftsmanship built into Wilson equipment than this choice by top-rank players. Their endorsements are your most important sales feature.

FEATURING WILSON'S EXCLUSIVE NEW PATENTED STRATA-BOW CONSTRUCTION

STRATA-BOW Frames—Wilson's exclusive patented new construction feature—is the talk of Tennis circles. A revolutionary new type of super laminating, giving new, closer, weight control, new balance, new beauty. With it, every Wilson Racket now has new "sweetness" in feel and play.

WILSON
Tennis Rackets
BOBBY RIGGS
Golden State

Bobby Riggs—world famous tennis star, designed the Golden State for the popular priced field and Wilson has given it many quality features which you would not expect to find in a racket at this price. In the Golden State you get the best possible value for your money. Like all Wilson rackets, this model has a Strata-Bow frame—made of white ash and red and blue fibre laminations. The shoulders have a blue overlay and the throat and handle are finished in white. Blue and white fibreloid bindings on throat and shoulder. High grade, black calfskin, perforated grip. Strung with nylon **Monofilament**. Retail 9.00

No. 6KT2234.
Dealer's, each 6.00
Less 2% net

5.88

Wilson
BOBBY RIGGS
Signature
TENNIS RACKET

Famous Wilson Strata-bow construction of white and red ash. White shoulder flakes, red fiber throat and natural handle flakes. Ruggedly built for hard, smashing play. It has a sturdy shoulder overlay that makes it the most durable racket in tennis. Center skived, golden embossed, red leather grip. **Strung with multi-ply graded nylon.** Retail 14.95

No. 6KT2724. Dealer's, each 10.13.
Less 2% net

9.95

Wilson
KRAMER AER-FLO
TENNIS RACKET

Here is a smart rugged racket, especially designed for better players. Choice materials with finest craftsmanship throughout. The famous Wilson Strato-bow construction. Three red fiber strips in ash bow, center shoulder overlay. Painted white from top of grip to top shoulder binding. Perforated black leather grip. Multi-ply nylon stringing. Retail 10.95

No. 6KT2822. Dealer's, each 7.69.
Less 2% net

7.69

WILSON CHAMPIONSHIP TENNIS BALLS

The ball that has been used in more important tournaments than any other. The ball with the life and bounce champions demand. 100% natural rubber. Has a durable nap. Holds its course, does not float or drift. Packed 3 in can, 4 cans in carton. Retail .75 ea

No. 8KT1010. Dealer's doz net.

6.45

WILSON TENNIS RACKET COVERS

Rubberized cover. Elastic band at throat.

Retail 60.
No. T4832. Dealer's each .45.

New synthetic plastic head cover. Waterproof and dustproof. Will not stiffen or crack. Draw string. Retail, ea. 1.50.
No. 6K4820. Dealer's, each 1.10.
Less 2% net.

1.08

WILSON TENNIS RACKET PRESS

Tennis racket press in a standard triangular pattern. Sturdily constructed of selected hardwood. 4 fast action screws with washer and wing nut. Made to produce an even tension on racket. Retail 1.20.

No. 6KT4906. Dealer's each .90.
Less 2% net

.88

WILSON
phoenix
TENNIS RACKET

Wilson — makers of the world's finest tennis rackets—recommends the Phoenix to players who want a good racket at low cost. **Expert craftsmen** have given this model the same superb look and feel that is typical of all Wilson-quality rackets. It has the **famous, exclusive Strata-Bow** construction and is beautifully finished with a blue handle, throat and shoulders. **The laminated frame is of sturdy ash and fibre.** Red, white and blue bindings on shoulders and throat. **Good quality calfskin grip.**

No. 6KT2434. Strung with nylon. Retail 8.00.
Dealer's, each 6.00.
Less 2% net

5.88

100 ORDER ITEMS ON THIS PAGE FROM

GENERAL-AMERICAN DISTRIBUTORS
42 W. GERMAK ROAD, CHICAGO 16, ILLINOIS

SEE PAGE 219 FOR ORDER BLANK

DIETZ LANTERNS

D-LITE

Cold blast for kerosene. Unusual lighting power and faithful burning qualities 10 candle power light, 1 in. wick, height overall 13¾ in. Fount capacity 45 hours Weight per carton 18 lbs. Loc-Nob clear globes.

No. 2 .....Per dozen $28.50
Half dozen in a carton

BLIZZARD

Cold blast, for kerosene. Bright tin with Terne Plate bottom. Beaded round tubes. Specially braced globe lift Double seamed, solderless oil fount. No 262 patented steel burner. Fount capacity 45 hours, volume of light 10 candle power, 1 in. wick, height overall 15 in. Loc-Nob clear globes.

No. 2BL . .. .Per dozen $28.50
Half dozen in a case

MONARCH, STREAMLINE

Hot blast, for kerosene. Bright tin with Terne Plate bottom Beaded, round tubes Positive locking globe lift. Double seamed, solderless oil fount, No 411 patented steel burner. Fount capacity 30 hours, volume of light 4 candle power, ⅝ in. wick, height overall 13½ in. Loc-Nob Globes.

No. O—Clear globes .....Per dozen $22.50
One dozen in a case

LITTLE GIANT LARGE FOUNT

Cold blast, for kerosene Bright tin with Terne Plate bottom. Beaded round tubes. Double seamed solderless oil fount Patented steel burner. Fount capacity 70 hours, volume of light 6 candle power, ⅝ in. wick, height overall 11½ in. Loc-Nob Globes

No. LHG—Ruby globes .....Per dozen $28.50
One dozen in a case

LITTLE WIZARD, STREAMLINE

Cold blast, for kerosene. Bright tin with Terne Plate bottom. Beaded, round tubes Double seamed, solderless oil fount, No. 201 patented steel burner. Fount capacity 30 hours, volume of light 6 candle power, ⅝ in. wick, height overall 11½ in Loc-Nob Globes.

No. LW Clear globes .....Per dozen $3 30
No LWR—Ruby globes .....Per dozen 6.30
No. LWG—Green globes .....Per dozen 6.30
One dozen in a case

ROADSTER WAGON

Cold blast for kerosene. Tin, black enameled, with Terne Plate bottom No. 201 patented steel burner. Has 2¼ in ruby rear lens, corrugated reflector, side spring and "E" holder It is made for left hand only and fits either a round or flat holder.

Fount capacity 20 hours, reflected light 10 candle power. ⅝ in. wick, height over all 11½ in. Fitted with No. LW1 Clear Little Wizzard Loc-Nob Globes

No. 85LH—Left Hand.....Per dozen $36.00
No. 85RH Right Hand .....Per dozen 36.00
Half dozen in a case

VESTA RAILROAD

Cold blast, for kerosene. Top tips back to permit removal of globe. Bright tinned steel finish. Either wire or wood bail. No 500 patented steel burner Fount capacity 12 hours, volume of light 3 candle power, ⅝ in. wick, height overall 9¾ in. Genuine Pyrex heat resisting globe

No. 5—Wire bail ... .Per dozen $43 20
Twelfth dozen in a carton

TRUCK LANTERNS

LUCK-E-LITE

Extra strong for heavy duty use on transport trucks. Bail is offset—locks in vertical position on bracket that hangs flat against truck. Easy to light—raise the dome, not the globe. The small flame burns 50 hours on one filling. Weatherproof and joltproof. Fount capacity, 12 ounces; Burner, No. 252; Wick, No. 253, ¾" round felt; Burning time, 50 hours; Globe, No. 10R Little Pilot; Height, bail down, 9 inches; Finish, Red enamel.

No. 25R .....Per dozen $35.40

No. 251 LUCK-E-LITE LANTERN HOOK

Made of 14 gauge steel, cadmium plated, Luck-E-Lite Hooks are designed to hold lanterns securely. Two screw or bolt holes for attaching to truck. Can also be used with other kinds of lanterns

No. 251 .....Per dozen $1.08

LAMP WICKS

"RAYO"

Braided cotton Circular width when flat 2½ in., length 7½ in

No. 2 .. ..Per dozen $2.85
One dozen in a package

LANTERN OR LAMP WICKS

Braided high grade cotton

Nos.	E	A	B	D
Size, Nos ..	0	1	2	3
Width, in	½	⅝	1	1½
Per gross	$3 20	4 20	6.30	7 60

One gross in a package

LAMP BURNERS

Brass, with steel ratchet cap, tube, chimney springs and ratchet wire

No. 2293—Size, 1⅝ in. wick.....Per doz. $3.00
No. 2294 Size 2, 1 in. wick.....Per doz. 3.20
One dozen in a box

Buck Saws

Disston—Quaker City Champion Tooth

A special hardwood frame, red lacquer finish. Double brace stretcher, single rivet. Champion tooth blade, 1¼ inches wide straight breast 22 inch plain clipper rod

Stock No.	Mfr's. No.	Blade Inches Lgth.	Width	Tb Dos.	Cat. List EACH
2N 7754	3175	30	1¼	4 9	$2.50

One-half dozen in a carton.

Disston—Quaker City Plain Tooth

Frame is of selected hard wood, double brace stretcher single rivet. Plain tooth blade. Straight breast bright finish. Plain clipper rod

Stock No.	Mfr's. No.	Blade Inches Lgth.	Width	Tb Doz.	Cat. List EACH
2N 7753	3150	30	1¼	4 9	$2.35

One-half dozen in a carton.

Buck Saw Parts

Disston—Champion Tooth

Made from crucible steel, extra thin back straight breast, bright finish.

Stock No.	Mfr's. No.	Lgth. Inch	Width Inch	Tb Dozen	Cat. List EACH
2N 7758	16	30	2	6	$1.35

One dozen in a bundle.

Disston—Quaker City—Champion Tooth

Made of crucible steel straight breast thin back

Stock No.	Mfr's. No.	Lgth. Inch	Width Inch	Tb Dozen	Cat. List EACH
2N 7759	3175	30	1¼	6	$0.75

One dozen in a bundle.

Saw Horses

Saw Horse Braces

Made of 16 gauge steel, rust resistant coated May be used for table platform display or work bench legs Sets rigid sturdy Saw tooth saw grip and hold Can adjust and telescope when not in use Any thickness or length of to bar may be used or any length legs for various heights Two (1 pair) braces make one saw horse

Stock No.	Size Inches	Tb Pair	Post. List PAIR
2N 5021	3¾x5¾x6¾	3¾	$2.75

Bulk packing.

Saw Horse Braces Jiffy

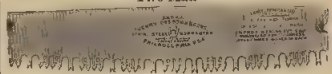
Contractors and builders recognize the value of Jiffy brackets No more screws or nails The strong simple bracket makes the setting up and taking down of sawhorses easy Use ordinary 2x4 inch for legs and 2 4, 6, 8, 10 or 12 inch for cross bar. One set or pair will make one saw horse.

Stock No.	Tb Set	Cat. List SET
2N 5022	3½	$1.70

One set in a box Twelve sets in a carton

Cross Cut Saws

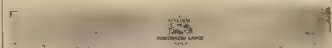
Two-Man



Disston—Perforated Lance Tooth

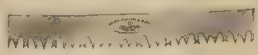
Made of crucible steel, excellent temper. Ground by special process so lines to conform to the tooth edge. Four gauges thinner on back than on tooth edge. Retains keen cutting edge. Used for both felling and bucking. Full width straight back four cutting teeth to one raker, teeth supported by bridges. Full polished Handles extra

Stock No.	Mfr's. No.	Lgth. Ft.	Wd. In. Center	Gauge	Tb Each	Cat. List EACH
2N 7841	115	5	5½	15/19	5½	$ 9 90
2N 7842	116	5½	5¾	14/18	6½	11 00
2N 7843	115	6	6	14/18	6½	12 00



Disston—Keystone Perforated Lance Felling

Stock No.	Mfr's. No.	Lgth. Ft.	Gauge	Tb Each	Cat. List EACH
2N 7851	K141	6	14/17	5½	$6 60



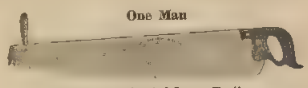
Disston

Triumph—Champion Tooth—Narrow—Hollow Back

Made of crucible steel. Recommended only for ordinary work Has two cutting teeth and one raker. Full polished, without handles

Stock No.	Mfr's. No.	Lgth. Ft.	Wd. In.	Tb Each	Cat. List EACH
2N 7845	253	5	3½	3½	$5 20
2N 7846	254	5½	3¾	4	5 55
2N 7847	254	6	3¾	4½	5 95

One Man



Disston—Perforated Lance Tooth

Furnished with Supplementary Handle

Blade made of crucible steel, tempered, polished and ground two gauges thinner on back than on tooth edge. Breast is slightly curved for easier sawing As excellent saw for heavy cutting. One raker tooth for every four cutting teeth which are perforated and "bridged" for stiffness Hardwood handles with varnished edges, shape grip for gloved hand, fastened with three brass screws, one embossed.

Stock No.	Mfr's. No.	Blade Lgth. Ft.	Width In. Butt	End	Tb Ea.	Cat. List EACH
2N 7830	514	3	7½	2½	3½	$ 8 95
2N 7831	514	3½	7	2½	4	10 00
2N 7832	514	4	7½	2½	4½	11 55
2N 7833	514	4½	7½	2½	5½	13 00

One quarter dozen in a bundle.

Disston—Champion Tooth

Furnished With Supplementary Handle

Blade made of crucible steel tempered and ground two gauges thinner on back than on tooth edge. Breast is slightly curved for easier sawing A good medium priced all around saw Has two cutting teeth and a raker tooth in each set up Fine teeth at point for starting cut Hardwood handle with varnished edges, shape grip for gloved hand fastened with three brass screws, one embossed

Stock No.	Mfr's. No.	Blade Lgth. Ft.	Width In. Butt	End	Tb Each	Cat. List EACH
2N 7835	554	3	6½	2½	3½	$ 8 10
2N 7836	554	3½	7	2½	4	9 30
2N 7837	554	4	7½	2½	4½	10 20
2N 7838	554	4½	7½	2½	5½	11 50

One-quarter dozen in a bundle.

MASTERPIECES IN MINIATURE

Model TOYS

TRUE, working copies of giant machines — that train young minds and hands *constructively!* Full of fun . . . summer or winter, indoors or out . . . built to outlast the average toy 3 to 1! Yes. *Model* Toys — above all — are *quality* toys!

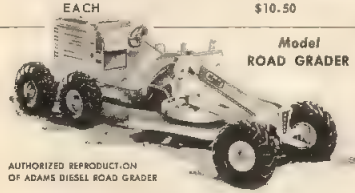
Model AERIAL LADDER

AUTHOR ZED REPRODUCTION OF AMERICAN LAFRANCE AERIAL LADDER

The only true, working model of actual firefighting equipment on the market! Heavy-gauge steel and aluminum; stainless steel trim. Two scaling ladders, wind-up siren, mock searchlight, firebell, lucite windshield. Die-cast wheels — dual in rear, steerable in front — 3-point suspension. Famous-make rubber tires. Thumbscrews elevate and extend ladders, which rotate full 360°. Overall height, 42"; length, 33"; weight, 11 lbs.

Retail	$15.95
Colorado & New Mexico	$16.75
EACH	$10.50

Model ROAD GRADER



AUTHORIZED REPRODUCTION OF ADAMS DIESEL ROAD GRADER

The only true, working model of a Road Grader in the market! Scraper blade adjusts three ways, die-cast wheels individually mounted, 3-point suspension. Heavy-gauge steel, famous-make rubber tires. Overall length, 26"; weight, 14 lbs., 2 oz.

Retail	$13.95
Colorado and New Mexico	$14.75
EACH	$ 9.30

HEILINER - Scraper

A sturdy, triple-duty earth mover -- acclaimed the best addition to the MODEL Toy Line. A new, related item, it tows other toys or can be towed. The heaviest, strongest toy built to date. Brilliant red enamel finish.

Model 2011 Retail $15.95 Colo. & N.M. $16.75 Ea. $10.50

Model EUCLID TRUCK

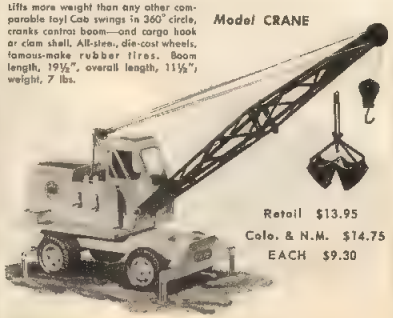
Authorized Reproduction of Euclid "Bottom Dump" Truck

More play value, more outstanding features than any other push-pull toy! Tractor unhitches and tows other *Model* Toys. Heavy-gauge steel; aluminum trim. Safety-stripe bumpers, mock headlights. Die-cast wheels — duals in rear, steerable in front — 3-point suspension. Famous-make rubber tires. Overall length, 27"; weight, 11 lbs.

Retail	$13.95
Colorado & New Mexico	$14.75
EACH	$ 9.30

Model CRANE

Lifts more weight than any other comparable toy! Cab swings in 360° circle, cranks control boom—and cargo hook or clam shell. All-steel, die-cast wheels, famous-make rubber tires. Boom length, 19½", overall length, 11½"; weight, 7 lbs.



Retail $13.95
Colo. & N.M. $14.75
EACH $9.30

AUTHORIZED REPRODUCTION OF UNIT MOBILE CRANE

"MODEL" TOYS — "Realism in Miniature"

EUCLID TRUCK

Authorized reproduction of the mammoth and familiar Euclid "Bottom-Dump" truck. Trailer unhitches from universal coupling post so tractor can be used to tow other Model Toys. Steerable front wheels with 3-point suspension. Six rubber tires of a well-known make. Loads and dumps at the flick of a finger. Overall length 27". Ship. wt. 13 lbs. Retail $13.95.

750R98—Each $8.30.....ONE STYLE OR ASST. IN LOTS OF 3, EACH **$8.65**

ROAD GRADER

Authorized reproduction of Adams Diesel Motor Grader. Actually grades and smooths the "construction site." The tandem-mounted wheels keep it level at all times. The scraper blade turns in a 50° arc, adjusts three ways. All steel, Goodyear rubber tires. Overall length 20". Retail $13.95.

750R4—Each $9.30.

ONE STYLE OR ASSORTED IN LOTS OF 3, EACH **$8.65**

MODEL TOYS—A HEALTHY CHALLENGE TO YOUNG MINDS AND HANDS. Built as ruggedly as their heavy construction counterparts. No "never-never land" of make-believe fantasy with these toys. AND THEY SHIFT CHILD PLAY PATTERNS FROM DESTRUCTIVE TO CONSTRUCTIVE IDEAS.

NOTE: "MODEL" TOYS ARE FAIR TRADED

UNIT MOBILE CRANE

An authorized scale reproduction of a Unit Mobile Crane. Made of electrically welded 20 gauge steel. Overall length 13½", Boom length 12½", Height 8½". Retail $13.95.

750R5—Each $8.30

ONE STYLE OR ASST.

IN LOTS OF 3, EACH **$8.65**

AERIAL LADDER TRUCK

A massive, authentic reproduction of the world famous American-La France Aerial Ladder. Overall length 33". Rugged construction of 22 gauge steel. A 42" aluminum ladder is elevated and extended by thumbscrews. Ladder base rotates full 360°. Dual rear wheels, steerable front wheels are exact copies of the "Budd" design. Lucite windshield, two aluminum scaling ladders, window saves, bell and mock searchlight. Stainless steel trim. Red body, and Black tires. Ship. wt 13 lbs. Retail $15.95.

750R35—Each $10.60.

ONE STYLE OR ASSORTED IN LOTS OF 6, EACH **$9.95**

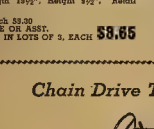
BUCKET LOADER

Authorized reproduction of Barber-Greene high capacity bucket loader. Can actually fill the earth hauler. All steel, caterpillar tread, chain drive. Overall height 13". Ship. wt. 10 lbs. Retail $11.95.

750R2—Each $7.95.

ONE STYLE OR ASST. IN LOTS OF 3, EACH **$7.60**

Chain Drive Tractor

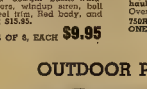


For Ages 3 to 6

Engineered for long life and trouble free operation. Powerful chain drive model with 2 to 1 gear ratio. Tubular steel frame construction gives rugged strength where the most needed. Steel hood looks like the real thing even to the ventilating ports. **Large semi-pneumatic tires on disc wheels.** Sturdy steering wheel for single front wheel. Bucket type seat. **Chain and sprocket is completely closed in.** An extremely durable tricycle. Comes in Yellow or Red. 1 tractor to the carton. **Length 27", width 19", height 26".** Shipped knocked down. Ship. wt. 27 lbs. F.O.B. Factory, Pennsylvania.

750R138.....EACH **$15.95**

OUTDOOR PLAY EQUIPMENT



WADING POOL

Deluxe plastic coated canvas wading pool with spray. **Available in 2 large sizes.** Pool can't upset, is readily portable for maximum use. **Rigid tubular steel framework with all exposed metal parts finished in baked enamel.** This new plastic coated canvas with bright stripe trim will last for many seasons. **Spray included with either size of pool.** Hardwood seats with rounded edges and enamel finish F.O.B. Factory, Ohio.

Size: 54x54x12" deep. Ship. wt. 22 lbs.

750R97.....EACH **$14.95**

Size: 54x30x12" deep. Ship. wt. 30 lbs.

750R98.....EACH **$19.85**

DELUXE 6-BALL CROQUET SET

Consists of 6 grooved and knurled rock maple 3¾" balls, and six 9" hardwood, pole type mallets with 24" screw-in handles. Arch sockets for permanent corset. Playing parts have double coating of varnish. The rack is White enamel with Red uprights. Ship. wt. each 22 lbs.

715R1.....EACH **$12.30**

Standard 6 Ball Set. Set consists of 6—3¾" Rock Maple balls and 6 mallets with 8" heads and threaded 24" screw-in handles. Varnished playing parts. Enameled rack. Ship. wt. 18 lbs.

715R3.....PER SET **$8.40**

"Toddles", the new Walking Doll

(D) EXTRA SIZE AND QUALITY make this big, life-like baby doll a special value. She sleeps and cries and she's dressed so nicely and made so well you'd think she cost much more. Movable arms and legs of latex (soft rubber) are stuffed with foam rubber to give the texture and appearance of satiny baby skin. Hands have separate fingers. Plastic turning head, delicately modeled tinted features and hair. Big glassene sleeping eyes with real lashes. Soft, chubby cotton stuffed body with realistic cry voice. Nicely dressed like a real baby in a sheer ninon dress with lace and ribbon trim. Bonnet to match. White lawn slip, rubber panties. Button fasten'gs. White rayon socks and artificial leather tie shoes. Ship. wts. 4 lbs; 2 lbs. 8 oz.; 1 lb. 8 oz.

48 T 3910—About 26 inches tall 6.98
48 T 3909 About 20 inches tall 5.39
48 T 3908—About 18 inches tall.....3.95

(E) PRETTY BABY WITH CURLY MOHAIR WIG. The quality of the materials used in making this doll and the fine workmanship apparent in her features and clothes make her an unusual value at this price. Turning head of hard plastic has delicately modeled chubby baby features. Big glassene sleeping eyes with real lashes. Movable arms and legs are made of soft V'nyl that looks and feels like baby skin. Chubby cotton stuffed body with cry voice. Brown mohair wig. Dressed in a lovely "Sunday Dress" of sheer ninon with a deep scalloped border of flocked ninon. Lace and braid trim with little ribbon rosettes. Bonnet to match. White lawn slip, pink rubber panties. Button fastenings. Rayon socks, tie shoes. Ship. wts. 4 lbs. 12 oz.; 3 lbs. 8 oz.; 2 lbs. 4 oz.

48 T 3914—About 25 inches tall.....7.75
48 T 3913 About 21 inches tall. 6.59
48 T 3912—About 17 inches tall.....4.65

"TODDLES" . . . THE NEW WALKING DOLL WITH SARAN WIG

(F) Teach "Toddles" to walk! She's the appealing little girl described in national magazines who will toddle along just like a small child when you take her by the hand and help her swing each foot forward as you take a step. She walks naturally, putting one foot in front of the other without the jerky effect usually produced by walking dolls with wind-up mechanisms. Her lovely blond Saran hair can be shampooed, combed, curled or "permanent waved" like the P. J. Mate dolls on Page 122. Molded plastic head with sweet childish features, vinyl plastic movable arms and legs look and feel like soft baby skin. Hard body. Large childlike glassene sleeping eyes with real lashes. Dressed in pretty little girl's dress of sheer ninon with embroidered ninon, lace and ribbon trim. Matching bonnet. Lace edged white lawn slip, rubber panties. Button fastenings. Rayon socks and tie shoes. Ship. wt. 5 lbs. 4 oz.

48 T 3939—About 21 in. tall..... ...14.65

READ "FACTS ABOUT DOLLS" ON PAGE 122. SEE WARDS MONTHLY PAYMENT PLAN ON PAGE 257.

A

D

B

C

130 WARDS KE

Effanbee's New "Tintair"... "Dy-Dee"

A SPECTACULAR "TINTAIR" DOLL BY EFFANBEE. The only doll with the hair you can make different colors over and over again. She's naturally a lovely blonde. Then with a little help from her "mother" she becomes a redhead or a brunette! The harmless food coloring washes off with warm water... and she's a blonde again. Her Dynel hair is lovely to comb and curly or "permanent wave" like Pin Mate dolls on Page 122. She is all plastic with glassene sleeping eyes; real lashes. In rayon taffeta dress and panty combination. Rayon socks, snap-on slippers. "Tintair Doll Hair Coloring Kit" contains "Carrot Top" and "Glossy Chestnut" coloring, plastic curlers, dish, color applicators, instructions.

48 T 3862—Abt. 18 in. tall. Ship. wt. 3 lbs. 8 oz. ..16.95

48 T 3861—Abt. 16 in. tall. Ship. wt. 2 lbs. 10 oz .13.45

48 T 3860 Abt. 14 in. tall. Ship. wt. 2 lbs. 2 oz. ..11.45

B DIAPER BAG, FEEDING PILLOW AND BIB... of waterproof plastic. Quilted diaper bag has inside pockets for bottles and "wet" diapers. Pillow 5x5½ in. Bib: nursing bottle, nipple; one plastic, 2 cotton diapers.

48 W 4117—Ship. wt. 10 oz 1.87

C DOLL UTILITY KIT. Plastic traveling kit that contains 2 diapers, pins, 2 bottles and nipples, plastic bottle cap, plastic straw with rubber mouthpiece, pacifier with noise maker, swabs, baby spoon. Simulated leather zipper case is 9x7x3 in., has 30-in. shoulder strap.

48 T 4115 –Ship. wt. 1 lb. 6 oz.....2.79

D EFFANBEE'S ORIGINAL DY-DEE DOLL WITH LAYETTE IN SUITCASE. Her soft, curly wig of real lambskin can be "shampooed" with a damp cloth. Dy-Dee also cries with a special pacifier, drinks from her bottle or through her plastic straw, wets, sleeps, and blows bubbles with her bubble pipe. Rubber body; plastic head turns. Soft ears. Jointed arms, legs. Glassene sleeping eyes; real lashes. Comes with diaper, shirt; rubber-tipped plastic straw, bottle, spoon, bubble pipe, pacifier, swabs, bubble bath, and "doll care" book. Layette includes rayon taffeta coat and bonnet, permanent finish organdy dress, cotton slip, rayon socks, shoes; soap, washcloth, sponge, powder puffs, and nipple cover. Ship. wts. 11 lbs.; 7 lbs.; 5 lbs. *Matiable.*

48 T 4038 M—Abt. 20 in. tall; in Suitcase. ..29.95

48 T 4037 –Abt. 15 in. tall; in Suitcase....20.95

48 T 4036 Abt. 11 in. tall; in Suitcase....13.95

DY-DEE DOLL WITH LAMBSKIN HAIR (without layette and case). Like doll in (D) above. Comes with diaper, shirt; plastic straw, bottle, spoon, bubble pipe, pacifier, swabs, bubble bath, book. Ship. wts. 6 lbs. 8 oz.; 3 lbs. 10 oz.; 2 lbs. 14 oz.

48 T 4010—Abt. 20 in. tall. Doll only.....21.00

48 T 4009 Abt. 15 in. tall. Doll only.....14.85

48 T 4008 Abt. 11 in. tall. Doll only..... 9.49

Plastic "Baby Skin" by Horsman

HORSMAN DOLLS ARE EXCELLENT VALUES. Movable arms and legs are soft Vinyl plastic . . . feel like baby skin. Cotton stuffed bodies. Turning heads are hard plastic, exquisitely molded, almost unbreakable. Wigs, where used, are firmly sewed to cloth foundation.

M SOFT BABY IN PINAFORE. Pretty little miss in a fluffy organdy pinafore with embroidered organdy trim. Dress underneath is also organdy with puff sleeves. Bonnet to match. Pin fastenings. Plastic "rubber" panties. Shoes, rayon socks. Glassene sleeping eyes, real lashes. Mohair wig. Cry voice.
48 T 3926—Abt. 16 in. tall. Wt. 2 lbs. 4.45

N SWEET FACED LITTLE BABY DOLL. She wears a lace trimmed sheer ninon dress and matching bonnet. Full white lawn slip with pink edging. Pin fastenings. Plastic "rubber" panties. Little tie shoes, rayon socks. Glassene sleeping eyes, real lashes. Delicately tinted molded hair. Cry voice.
48 T 3925 Abt. 18 in tall. Wt. 2 lbs. . . . 3.75

P SNOWSUIT BABY. Chubby Little fellow all ready for a frolic in the snow. Dressed in soft cotton flannel snowsuit edged in blue. Visored helmet to match. Pin fastenings. Tie shoes, rayon socks. Painted eyes, molded tinted hair. Cry voice.
48 T 3928 —Abt. 15 in. tall. Wt. 2 lbs. 4.69

R BIG BABY DOLL. Almost two feet tall in dainty ninon dress with lace and rayon yarn trim. Bonnet to match. White lawn slip. Button and pin fastenings. Plastic "rubber" panties. Shoes, rayon socks. Big lustrous glassene sleeping eyes with real lashes. Curly brown mohair wig. Cry voice.
48 T 3930—Abt. 22 in. tall. Wt 3 lbs. 8 oz. 7.49

T PRETTY BABY DOLL WITH SARAN WIG. Wash, comb, curl or "permanent wave" her lovely long blonde hair like Pla-Mate dolls on Page 122. In ninon dress and bonnet, lace and rayon yarn trim. White lawn slip. Button fastenings. Plastic "rubber" panties. Shoes, rayon socks. 4 curlers. Big, chi.dlike glassene sleeping eyes. Cry voice.
48 T 3936—Abt. 17 in. tall. Wt 2 lbs 8 oz. 6.35

U APPEALING SOFT BABY DOLL. Lace trimmed ninon dress and bonnet. White lawn slip. Button fastenings. Plastic "rubber" panties. Shoes, rayon socks. Glassene sleeping eyes, lashes. Molded hair. Cry voice
48 T 3927—Abt 18 in. tall. Wt. 2 lbs. 8 oz. 4.98

V KNIT OUTFITS FOR ALL DOLLS. Just like the sets real babies wear. An extra cute addition to any doll layette. Soft cotton yarn knitted sweater with buttons down the front, and bonnet, mittens and bootees to match. Ship. wt. per each set is 3 oz.
48 T 4105—For Dolls 18 to 23 in. tall. 1.45
48 T 4104—For Dolls 15 to 18 in. tall. 1.29
48 T 4103—For Dolls 10 to 14 in. tall. 1.00

DON'T MISS "FACTS ABOUT DOLLS" ON PAGE 122 AND DETAILS OF WARDS MONTHLY PAYMENT PLAN ON PAGE 257.

Lovable, Life-like Babies and

A BEAUTIFUL BABY WITH SARAN WIG. This big, beautifully made, exquisitely dressed doll is an excellent value at this price. Her lovely hair can be "permanent waved," weaned, combed and set in many hair styles because it is full length - not sewn down at base of head. Molded plastic head has appealing baby features. Beautifully detailed soft plastic movable arms and legs, cotton stuffed, feel like real baby skin. Cotton stuffed body with cry voice. Glassene sleeping eyes, real lashes. Dressed in lovely rayon taffeta dress, flocked nanon inserts and lace trim. Bonnet to match. White lawn slip, rubber panties. Snap fasteners. Rayon socks, tie shoes. Ship. wts. 4 lbs 4 oz.; 3 lbs. 12 oz., 2 lbs. 4 oz., 1 lb. 12 oz.

48 T 4282—About 25 in. tall 9.95
48 T 4281—About 21 in. tall. 8.95
48 T 4280—About 18 in. tall 6.95
48 T 4279—About 15 in. tall..... 5.95

B "MOMMY'S BABY" WITH CURLY TOUSLE WIG by Effanbee, makers of finest quality dolls. Her soft, curly hair of real lambskin can be brushed and "shampooed" with a damp cloth. Her beautifully molded plastic turning head and petal soft "skin" of Latex (soft rubber) with foam rubber filling can be washed. Jointed arms and legs. Expensive cry voice mechanism makes her "Ma-ma" sound ever-so-realistic when you squeeze her tummy. Glassene sleeping eyes, real lashes. Lovely lace trimmed embroidered organdy dress and bonnet. Lace trimmed full white cotton slip and panties. Snap fasteners. Rayon socks, tie shoes. Ship. wts. 7 lbs. 4 oz.; 4 lbs. 8 oz.; 3 lbs. 5 oz.; 2 lbs. 8 oz.

48 T 4308 About 25 in. tall... 19.35
48 T 4307—About 22 in. tall... 14.95
48 T 4306—About 19 in. tall . 12.45
48 T 4305 - About 16 in. tall... 10.45

LOVABLE LITTLE BABY IN KNITTED SWEATER SET

C A dear little baby in a knitted cotton sweater and hood outfit. Washable latex (soft rubber) body with chubby movable arms and legs. Foam rubber stuffing makes her lightweight and lovely to hug. Squeeze her for little tummy and she coos. Beautifully detailed plastic turning head with cute baby expression; big glassene sleeping eyes with real lashes; molded baby ears. In fluffy lace trimmed organdy dress, white cotton slip, panties, rayon socks, artificial leather tie shoes and cotton sweater set. Ship. wts. 5 lbs. 4 oz.; 3 lbs. 8 oz.; 2 lbs. 4 oz.; 1 lb

48 T 4278—About 25 in. tall.....9.25
48 T 4277—About 21 in. tall.....7.45
48 T 4276 About 16 in. tall.....4.79
48 T 4275 About 12 in. tall... .3.29

Plastic "Baby Skin" by Horsman

HORSMAN DOLLS ARE EXCELLENT VALUES. Movable arms and legs are soft Vinyl plastic . . . feel like baby skin. Cotton stuffed bodies. Turning heads are hard plastic, exquisitely molded, almost unbreakable. Wigs, where used, are firmly sewed to cloth foundation.

M SOFT BABY IN PINAFORE. Pretty little miss in a fluffy organdy pinafore with embroidered organdy trim. Dress underneath is also organdy with puff sleeves. Bonnet to match. Pin fastenings. Plastic "rubber" panties. Shoes, rayon socks. Glassene sleeping eyes, real lashes. Mohair wig. Cry voice.
48 T 3926—Abt. 16 in. tall. Wt. 2 lbs. 4.45

N SWEET FACED LITTLE BABY DOLL. She wears a lace trimmed sheer ninon dress and matching bonnet. Full white lawn slip with pink edging. Pin fastenings. Plastic "rubber" panties. Little tie shoes, rayon socks. Glassene sleeping eyes, real lashes. Delicately tinted molded hair. Cry voice.
48 T 3925 Abt. 18 in tall. Wt. 2 lbs. . . . 3.75

P SNOWSUIT BABY. Chubby Little fellow all ready for a frolic in the snow. Dressed in soft cotton flannel snowsuit edged in blue. Visored helmet to match. Pin fastenings. Tie shoes, rayon socks. Painted eyes, molded tinted hair. Cry voice.
48 T 3928 —Abt. 15 in. tall. Wt. 2 lbs. 4.69

R BIG BABY DOLL. Almost two feet tall in dainty ninon dress with lace and rayon yarn trim. Bonnet to match. White lawn slip. Button and pin fastenings. Plastic "rubber" panties. Shoes, rayon socks. Big lustrous glassene sleeping eyes with real lashes. Curly brown mohair wig. Cry voice.
48 T 3930—Abt. 22 in. tall. Wt 3 lbs. 8 oz. 7.49

T PRETTY BABY DOLL WITH SARAN WIG. Wash, comb, curl or "permanent wave" her lovely long blonde hair like Pla-Mate dolls on Page 122. In ninon dress and bonnet, lace and rayon yarn trim. White lawn slip. Button fastenings. Plastic "rubber" panties. Shoes, rayon socks. 4 curlers. Big, chi.dlike glassene sleeping eyes. Cry voice.
48 T 3936—Abt. 17 in. tall. Wt 2 lbs 8 oz. 6.35

U APPEALING SOFT BABY DOLL. Lace trimmed ninon dress and bonnet. White lawn slip. Button fastenings. Plastic "rubber" panties. Shoes, rayon socks. Glassene sleeping eyes, lashes. Molded hair. Cry voice
48 T 3927—Abt 18 in. tall. Wt. 2 lbs. 8 oz. 4.98

V KNIT OUTFITS FOR ALL DOLLS. Just like the sets real babies wear. An extra cute addition to any doll layette. Soft cotton yarn knitted sweater with buttons down the front, and bonnet, mittens and bootees to match. Ship. wt. per each set is 3 oz.
48 T 4105—For Dolls 18 to 23 in. tall. 1.45
48 T 4104—For Dolls 15 to 18 in. tall. 1.29
48 T 4103—For Dolls 10 to 14 in. tall. 1.00

DON'T MISS "FACTS ABOUT DOLLS" ON PAGE 122 AND DETAILS OF WARDS MONTHLY PAYMENT PLAN ON PAGE 257.

Lovable, Life-like Babies and

A BEAUTIFUL BABY WITH SARAN WIG. This big, beautifully made, exquisitely dressed doll is an excellent value at this price. Her lovely hair can be "permanent waved," weaned, combed and set in many hair styles because it is full length - not sewn down at base of head. Molded plastic head has appealing baby features. Beautifully detailed soft plastic movable arms and legs, cotton stuffed, feel like real baby skin. Cotton stuffed body with cry voice. Glassene sleeping eyes, real lashes. Dressed in lovely rayon taffeta dress, flocked nanon inserts and lace trim. Bonnet to match. White lawn slip, rubber panties. Snap fasteners. Rayon socks, tie shoes. Ship. wts. 4 lbs 4 oz.; 3 lbs. 12 oz., 2 lbs. 4 oz., 1 lb. 12 oz.

48 T 4282—About 25 in. tall 9.95
48 T 4281—About 21 in. tall. 8.95
48 T 4280—About 18 in. tall 6.95
48 T 4279—About 15 in. tall..... 5.95

B "MOMMY'S BABY" WITH CURLY TOUSLE WIG by Effanbee, makers of finest quality dolls. Her soft, curly hair of real lambskin can be brushed and "shampooed" with a damp cloth. Her beautifully molded plastic turning head and petal soft "skin" of Latex (soft rubber) with foam rubber filling can be washed. Jointed arms and legs. Expensive cry voice mechanism makes her "Ma-ma" sound ever-so-realistic when you squeeze her tummy. Glassene sleeping eyes, real lashes. Lovely lace trimmed embroidered organdy dress and bonnet. Lace trimmed full white cotton slip and panties. Snap fasteners. Rayon socks, tie shoes. Ship. wts. 7 lbs. 4 oz.; 4 lbs. 8 oz.; 3 lbs. 5 oz.; 2 lbs. 8 oz.

48 T 4308 About 25 in. tall... 19.35
48 T 4307—About 22 in. tall... 14.95
48 T 4306—About 19 in. tall . 12.45
48 T 4305 - About 16 in. tall... 10.45

LOVABLE LITTLE BABY IN KNITTED SWEATER SET

C A dear little baby in a knitted cotton sweater and hood outfit. Washable latex (soft rubber) body with chubby movable arms and legs. Foam rubber stuffing makes her lightweight and lovely to hug. Squeeze her for little tummy and she coos. Beautifully detailed plastic turning head with cute baby expression; big glassene sleeping eyes with real lashes; molded baby ears. In fluffy lace trimmed organdy dress, white cotton slip, panties, rayon socks, artificial leather tie shoes and cotton sweater set. Ship. wts. 5 lbs. 4 oz.; 3 lbs. 8 oz.; 2 lbs. 4 oz.; 1 lb

48 T 4278—About 25 in. tall.....9.25
48 T 4277—About 21 in. tall.....7.45
48 T 4276 About 16 in. tall.....4.79
48 T 4275 About 12 in. tall... .3.29

Necklace #8503 . . . $9.75 Earrings #6503 . . . $3.75

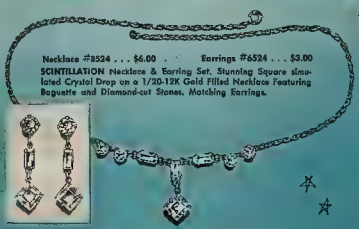
BAL MASQUE Necklace & Earring Set. Sparkling Square-cut Simulated Crystals and Glowing Popular Colored Stones in a Glamorous 1/20-12K Gold Filled Pendant Necklace, Earrings to Match.

Brilliant Stars
OF THE GLAMOUR WORLD
Dorsons
NATIONALLY ADVERTISED
ULTRA-SMART STONE JEWELRY

Presenting the newest, most magnificent simulated Crystal Jewelry Creations in many a fashion-conscious season!

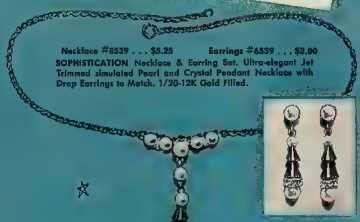
Fabulous Necklace and Earring Sets of irresistible beauty . . . featuring imported simulated crystal, diamond-like in brilliance . . . all hand cut, hand set, matched to perfection. Superb settings, designed with incomparable artistry, all 1/20-12K gold filled, rhodium finished.

Glamorously gift packaged in pastel, suede-finish jewel boxes —Attractively priced for maximum sales.



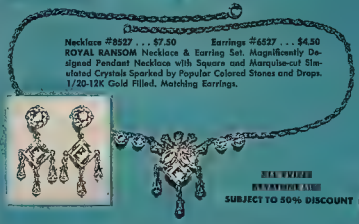
Necklace #8524 . . . $6.00 Earrings #6524 . . . $3.00

SCINTILLATION Necklace & Earring Set. Stunning Square simulated Crystal Drop on a 1/20-12K Gold Filled Necklace Featuring Baguette and Diamond-cut Stones. Matching Earrings.



Necklace #8539 . . . $5.25 Earrings #6539 . . . $3.00

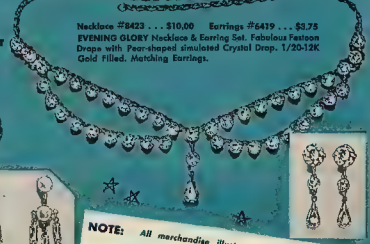
SOPHISTICATION Necklace & Earring Set. Ultra-elegant Jet Trimmed simulated Pearl and Crystal Pendant Necklace with Drop Earrings to Match. 1/20-12K Gold Filled.



Necklace #8527 . . . $7.50 Earrings #6527 . . . $4.50

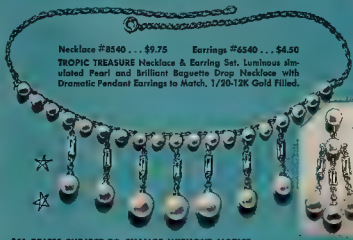
ROYAL RANSOM Necklace & Earring Set. Magnificently Designed Pendant Necklace with Square and Marquise-cut Simulated Crystals Sparked by Popular Colored Stones and Drops. 1/20-12K Gold Filled. Matching Earrings.

ALL TITLES AVAILABLE LESS SUBJECT TO 50% DISCOUNT



Necklace #8423 . . . $10.00 Earrings #6419 . . . $3.75

EVENING GLORY Necklace & Earring Set. Fabulous Festoon Drops with Pear-shaped simulated Crystal Drop. 1/20-12K Gold Filled. Matching Earrings.



Necklace #8540 . . . $9.75 Earrings #6540 . . . $4.50

TROPIC TREASURE Necklace & Earring Set. Luminous simulated Pearl and Brilliant Baguette Drop Necklace with Dramatic Pendant Earrings to Match. 1/20-12K Gold Filled.

NOTE: *All merchandise illustrated on this page is available in simulated Ruby, Emerald, Sapphire, Aquamarine, Diamond, Rose and Jonquil.*

RETAIL PRICES PLUS FEDERAL EXCISE TAX

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

DRAMATIC FASHIONS OF SPARKLING BEAUTY

RHINESTONE JEWELRY
Styled by Dorsons
NATIONALLY ADVERTISED

Necklace #8133 . . . $16.50 Earrings #6410 . . . $4.50
BRIGHT MAGIC Necklace & Earring Set. Diamond-cut Rhinestones with Stunning Festoon Pendant of Shimmering Baguettes. Fascinating Baguette Button Earrings to Match.

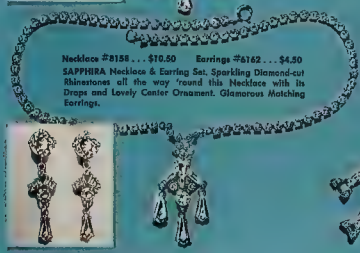
Necklace #8167 . . . $9.00 Earrings #6167 . . . $4.50
ENCHANTRESS Necklace & Earring Set. All-Rhinestone Necklace Adorned with Exquisite Baguette Crown and Five Lustrous simulated Pearl Drops. Alluring Pendant Earrings to Match.

Necklace #8160 . . . $10.50 Earrings #6160 . . . $4.50
HEART THROB Necklace & Earring Set. Exquisitely Fashioned Diamond-like Rhinestone Necklace with Romantic Heart-shaped Pendant. Matching Drop Earrings.

Necklace #8153 . . . $13.50 Earrings #6153 . . . $4.50
SOCIALITE Necklace & Earring Set. Triple Tear-drop Pearls (simulated) grace the Magnificent Baguette and Diamond-cut Rhinestone Ornament on this Sparkling all-Rhinestone Necklace. Matching Earrings.

Necklace #8161 . . . $10.50 Earrings #6161 . . . $4.50
WHITE SPLENDOUR Necklace & Earring Set. Superbly Styled Pendant of Baguette and Diamond-cut Rhinestones with a trio of Pear-shaped, simulated Crystal Drops. Long Festoon Earrings to Match.

RETAIL PRICES
LUXETONE LIST
SUBJECT TO FOOD DISCOUNT



Necklace #8158 . . . $10.50 Earrings #6162 . . . $4.50
SAPPHIRA Necklace & Earring Set. Sparkling Diamond-cut Rhinestones all the way 'round this Necklace with its Drops and Lovely Center Ornament. Glamorous Matching Earrings.

WATCH ATTACHMENTS

#411 . . . $9.75
Glamorous Rhinestone Watch Bracelet in Sterling Silver with Small, Square, Diamond-like Stones.

#427 . . . $9.00
Luxuriously Designed Sterling Silver Watch Bracelet with Precious-looking Diamond-cut Rhinestones.

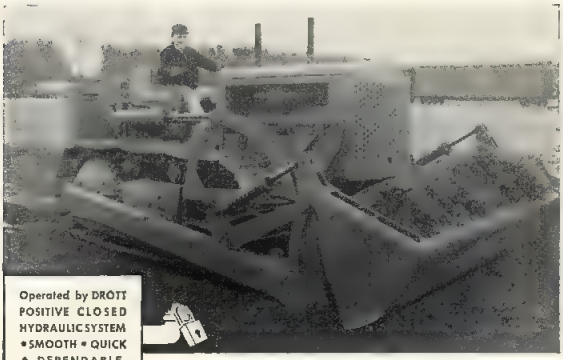
RETAIL PRICES PLUS FEDERAL EXCISE TAX

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

Illustrations shown are approximately ⅔ actual size.

DROTT BULLCLAM SHOVEL

For Mounting on International Tractors



Operated by DROTT POSITIVE CLOSED HYDRAULIC SYSTEM • SMOOTH • QUICK • DEPENDABLE. Keeps dirt and air out . . . keeps oil in! Used successfully on Drott equipment for many years.

The Bullclam Shovel is now being widely used by municipalities for the construction of sanitary fills in connection with refuse disposal. It is the only piece of equipment necessary to perform the entire operation. A very useful single piece of equipment for many other municipal jobs, it's also an ideal all-'round outfit for contractors, counties, and townships.

The wearing plate on the clam serves as a shoe. A predetermined depth of cut is controlled by setting the depth gauge located on right-hand cylinder.

- Levels when it loads, when en route and when unloading.
- No stopping any time to change position, for loading or unloading.
- No loss of dirt or material en route.
- Dirt or material is moved the shortest distance—straight ahead (left or right, backward or forward), to the place of utilization.
- Goes through the soft going in mud boat fashion, using down pressure.
- Runs free of the tractor—not fixed or rigid.
- The unit being on the front, tractor always travels on level ground.
- No overhang—the unit is built close to tractor and is perfectly balanced.
- No oil breather pipe—the hydraulic system is the closed type, giving instant response, with no way for dust or dirt to get in the system.
- Hydraulic valves are submerged in oil at all times.
- Excavates evenly—½, 1, 2 or more inches—and carries or floats dirt.
- Built to give the most possible strength with least possible weight.
- Drawbar is free to handle all types of hauling work.
- Works in extremely close or cramped quarters.
- Either end independently tilted at any time from driver's seat.

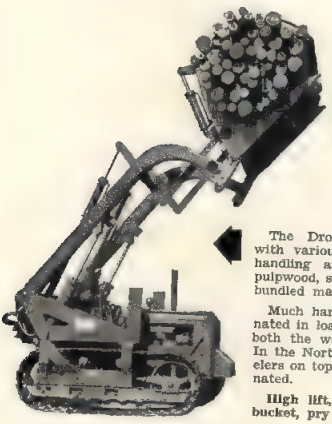
SPECIFICATIONS

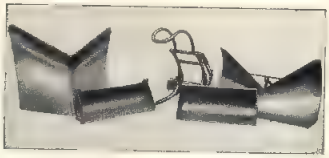
	Model 85	Model 60	Model 35
For mounting on International Tractors	TD-18	TD-14	TD-9
Capacity, heaped (cubic yards)	3	2	1
Lifting capacity (pounds)	9,000	6,000	3,000
Total throat opening between cutting edges (inches)	59	55	47½
Drop below ground line (inches)	16	14	11½
Lift above ground line (inches)	36	32	30
Moldboard length	9'9"	9'9"	8'
Moldboard height (inches)	37½	35	29¼
Weight, approximately (pounds)	9,200	8,370	5,100
Tractor tread (inches)	74	74	80
Maximum width of track shoes (inches)	16	20	22

50-4-49

DROTT SKID-LOADER

For International Tractors





Attachments available are V-type Snowplow, Bulldozer, various types of racks, Reversible blade plow and Bucket. All are quickly interchangeable.

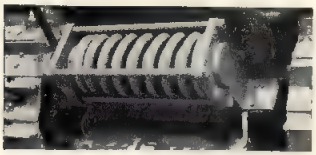
The Drott SKID - LOADERS with various racks are used for handling and transporting logs, pulpwood, stumps, bark, slash and bundled material.

Much hand labor can be eliminated in loading and unloading in both the woods and at the mill. In the North country, snow shovelers on top of the piles are eliminated.

High lift, far pitch, controlled bucket, pry action break-out, and shoe transportation are some of the outstanding features of the DROTT SKID - LOADER with bucket attachment which helps to do the big jobs better.

Only DROTT gives you a break-out force through a prying action which transmits the force directly through the shoes to the ground with little strain on the tractor. This break-out feature enables the operator to obtain a heaped load every time.

The Drott Hydro-Spring puts the hydraulic system under spring tension, thereby reducing shock to tractor, loader, hydraulics and operator to a minimum.



SPECIFICATIONS

		Model 35	Model 60
For mounting on International Tractors		TD-9	TD-14
Capacity, 8' pulpwood	(cord)	¾	1
Capacity, 5' pulpwood	(cord)	½	¾
Capacity, logs up to 16'	(pounds)	4,000	6,000
Capacity, dirt bucket	(cubic yards)	1	1½
Capacity, coal bucket	(cubic yards)	1½	2
Bucket width (standard)	(inches)	80	90
Loading height (above ground)		11'6"	12'6"
Drop below ground line	(inches)	8	8
Lifting capacity	(pounds)	4,000	6,000
Hydraulic working pressure	(pounds P.S.I.)	675	675
Maximum shock pressure, with hydro-spring	(pounds P.S.I.)	850	850
Weight, with 2-pr. rack or 1½ yd. bucket, approx.	(pounds)	5,980	6,990
Tractor tread	(inches)	60	74
Maximum width track shoes	(inches)	16	20

59-2-49

"Ottawa"

HYDRAULIC BUCKET LOADERS

For IHC Models I-9, ID-9, I-6, ID-6, I-4

Push-Pull for Power Plus Bucket Loads

Double Down Pressure

"Under-Eye" Bucket Level Indicator

Has the Famous "One-Trol" Single Lever Valve Control

SPECIFICATIONS

Model No. I-9-H

Lifting capacity	6,000 lbs.
Bucket capacity	¾ cu. yd. struck
Clearance, Bucket Dumped	over 8'
Digs	16" below ground level
Front Power Take-Off	25 gal. pm pump
All four cylinders	double acting
"ONE-TROL" single lever valve control.	
Shipping weight with bucket	2,340 lbs.

Model No. I-6-H

Lifting capacity	4,000 lbs.
Bucket capacity	⅝ cu. yd struck
Clearance, Bucket Dumped	over 8'
Digs	8" below ground level
Front Power Take-Off	19 gal. pm pump
All four cylinders	double acting
"ONE-TROL" single lever valve control.	
Shipping weight with bucket	2,140 lbs.

Model No. I-4-H

Lifting capacity	3,000 lbs.
Bucket capacity	½ cu. yd. struck
Clearance, Bucket Dumped	over 7'6"
Digs	6" below ground level
Front Power Take-Off	14 gal. pm pump
All four cylinders	double acting
"ONE-TROL" single lever valve control.	
Shipping weight with bucket	1,840 lbs.

THE BEST AT THE LOWEST COST

ATTACHMENTS

Snow and Coal Buckets, 1 and 1½ cu. yd., available for I-9-H.

Light Material Buckets, 1 and 1½ cu. yd., available for I-9-H.

Light Material Buckets, ¾ and 1 cu. yd., for I-6-H

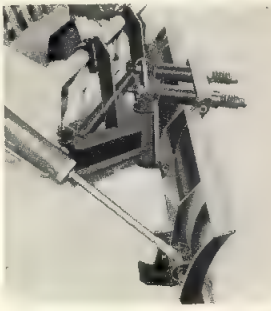
Light Material Buckets, ⅝ and ¾ cu. yd., for I-4-H.

Fixed Position Bulldozer Blades, 5' and 7' lengths, for all model loaders as a quick bucket replacement.

Hydraulic-Controlled Boom, 8' length, giving 16' lift, for all model loaders as a quick bucket replacement

Rear Mounting Weight Boxes for all model loaders

Angledozer, hydraulic-controlled, for all loaders; angles right or left, illustrated below.



60-1 51

Look at NOMA for Easter!

Look for this full-color, full-page advertisement which will appear in

Look magazine

MARCH 13th ISSUE

reaching over 18,000,000 readers

Just in time for the Easter parade that comes to your toy department looking for surprises! And nothing could surprise—or delight—more than NOMA, the EFFANBEE electronic talking doll who laughs, sings, talks and prays in a real human voice! Order now! Stock up! Feature, display and cash in on the most widely promoted doll in the history of the industry!

EFFANBEE DURABLE DOLLS

EFFANBEE DOLL CO.
200 FIFTH AVENUE, N. Y. 10, N. Y.
maker of famous Dy-Dee Dolls
a division of NOMA Electric Corp.
makers of world-famous NOMA lights

CLIP THIS COUPON—Place Your Order Today!

EFFANBEE DOLL CO., Inc.
200 FIFTH AVE. • NEW YORK 10, N. Y.

Date_____

Please ship us via_____

_____ doz. #2495 NOMA, the Effanbee Electronic Talking Doll @ $14.95 each.

Store Name _____

Address_____

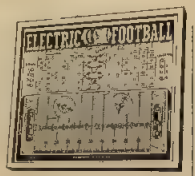
City_____ Zone___ State_____

Buyers Signature_____ Dept. _____

☐ I am interested in your merchandising aids. Please send full information.

Electric Games

Football

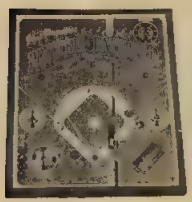


This electric mechanism is controlled by six switches. Lamps flash in combination as teams press the buttons to outmaster one another. Actual football plays are planned and executed with the realism of big stadium games. Set complete with Eveready battery football and line markers. Brightly colored field. Attractive box cover.

Stock No.	Mfr's. No.	Size In.	lb Each	Fact. List EACH
4H 2051	67F	16½x13½x1½	2¼	$3.00

Twelve in a carton.

Baseball

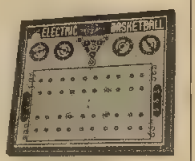


This electro mechanical baseball game gives players real action through skillful pitching and batting. When the ball is smacked for a successful play, lamps on the diamond beam the result. Umpire decides close plays. Complete with Eveready battery which operates four electric lamps and switch mechanism. Red lacquered frame encloses playing diamond. Attractive cover. Equipped with ball and base runners.

Stock No.	Mfr's. No.	Size In.	lb Each	Fact. List EACH
4H 2055	69B	15½x13½x1½	2¼	$3.00

Twelve in a carton.

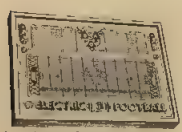
Basketball



Fast action switches produce the speed and excitement of actual basketball. Colored lamps direct the movement of the ball as it is raced back and forth on the court. Baskets are made or missed as in the hardest fought games. Game has four scoring dials, Eveready battery and playing equipment. Red lacquered wood frame encloses basketball court. Box cover design.

Stock No.	Mfr's. No.	Size In.	lb Each	Fact. List EACH
4H 2054	64X	16x13½x1½	2¼	$3.00

Twelve in a carton.



Senior Football

The scrimmage switches in combination with the six control dials light certain positions on the field to show the active player and indicate the direction the ball has taken. Standard flashlight battery operates all the electric lamps and the four switch panels. Enameled deep wood frame and playing field houses the electric mechanism. Complete with battery and playing pieces.

Stock No.	Mfr's. No.	Size In.	lb Each	Fact. List EACH
4H 2052	65F	18½x19½	3½	$5.00

Six in a carton.

Senior Baseball

The new model baseball has two motor rotors. They give spirited action on infield and outfield plays. The ball is really pitched over the plate. When the batter contacts, the rotors go into operation. This game has plenty of tense excitement. Skillful players will find it an interesting game. Neatly designed playing diamond, lacquered wood frame and colorful box label. Complete with two Eveready batteries, baseball and base runners.

Stock No.	Mfr's. No.	Size In.	lb Each	Fact. List EACH
4H 2057	79B	19½x13½x2	4	$5.95

Six in a carton.

Deluxe Football

This big deluxe model plays brilliant football. Each team has a bank of switches that control the motor rotor and seven lamps. Team captains plan and execute plays with their electric buttons. All of the thrilling plays of actual football are possible. An enclosed transformer, with cord and plug operates game from A.C. current. Automatic timer counts the quarters as downs are recorded. Big green lacquered frame encloses transformer and mechanism.

Stock No.	Mfr's. No.	Size In.	lb Each	Fact. List EACH
4H 2053	107	23½x14½x2½	6¾	$10.00

Six in a carton.

Deluxe Baseball

The Electric Twirler. The twirler is put in motion when pitcher sounds the buzzer for a pitch. Electric twirler combines with electric lamps to reveal the net result of the play. Enclosed transformer operates the twirler, 12 electric lamps and 15 switches. Enameled wood frame surrounds diamond. Electric cord with plug and all playing equipment are used.

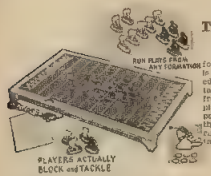
Stock No.	Mfr's. No.	Size In.	lb Each	Cat. List EACH
4H 2056	102	22½x14½	6¾	$10.15

Six in a carton.

Electric Games

Tru-Action Football

Tudor

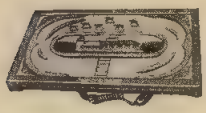


The tru-action electric football game where the ball is actually kicked and passed. The players run, until tackled. Plays can be run from any formation. Line plays, end runs, forward passes, field goals are all in this game. Real football right on your living room table

Stock No.	Mfr's. No.	Size In.	lb Each	Fact. List EACH
4H 2064	500	25x15½	4½	$8.49

Six in a carton

Tru-Action Horse Race



Tudor

Tru-action electric horse race game realistic yet cannot be fixed. Every player has a chance at the start of every race. A fascinating adult sport. You will be astonished at the many tricks like things that happen in this horse race game.

Stock No.	Mfr's. No.	Size In.	lb Each	Fact. List EACH
4H 2065	526	25x15½	4½	$8.95

Six in a carton

Electric Jack Straws

Electric Game Co.

Here is an old favorite electrified. It's an adult and junior party number and a wonderful "in bed" toy for any child. Tweezers pick out straws. When tweezers contact metal cover— Buzz! goes the buzzer and a red lamp lights for error. Colorful tubular box houses buzzer and Evermdy battery. Game complete with tweezers and straws in illustrated carton.

Stock No.	Mfr's. No.	lb Doz.	Fact. List EACH
4H 2049	51	8	$1.50

One dozen in a carton.

Electric Hot Potato

Electric Game Co.

This new game will stir up a lot of interest and fun, just like the political hot potatoes. It is a real playing game for two players that can circulate among a group for exciting play. A steel marble is dropped into the works. A trigger lever stops the marble in the switch maze. Either one or both lamps may light or the buzzer may sound. Each signal tells the player which way to move the peg in this electric bag of wares. Game complete with battery and full equipment.

Stock No.	Mfr's. No.	Box Size In.	lb Each	Fact. List EACH
4H 2043	62HP	10x2x3½	1	$2.00

Twenty-four in a carton

Electric Tic Tac Toe

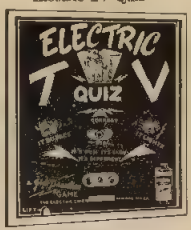
Electric Game Co.

Fun for two alone or as a pass around party game. A big opportunity for the bunch player when he push buttons for the play lamp. A real challenge of skill when he pegs. Attractive box. Complete with battery and pegs.

Stock No.	Mfr's. No.	Box Size In.	lb Each	Cat. List EACH
4H 2044	58T	13⅜x7⅜x1½	2½	$1.50

Twelve in a carton.

Electric TV Quiz



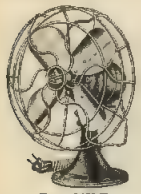
Electric Game Co.

TV Quiz is a year around seller to amuse and teach the children. A picture with a question and three possible answers is dialed. Three electric switch buttons correspond to the answers when the correct button is pushed the red lamp flashes and the buzzer applauds. Approximately 100 questions with each game.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 2045	60Q	8	$3.50

Twelve in a carton

EMERSON IMPROVED PARKER-BLADE FANS



Type 2450-D

Type 79646 AU

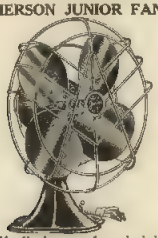
Induction type motor. Control of oscillation gives instant adjustment of arc from 90° to any lower range. The 10 in. Fans are lubricated by oil fed from cotton wicking from both upper and lower reservoirs. The 12 in. and 16 in. fans are equipped with a force feed continuous system of lubrication; spiral oil grooves in the rotor core and a spiral conveyor keeps the oil flowing freely to motor bearing surfaces.

Types 79646-AU and 79648-AU are finished in baked black satin enamel on motor and base, blades in satin black lacquer, bright cadmium plated guard, blue nameplate. Type 2450-D is finished in baked black wrinkle enamel on motor and base, blades in satin chromium baked enamel, guard in black enamel, blue nameplate.

Alternating Current-Oscillating Type

No.	Fan size	Volts	Cy	Speeds	Wt. Pkd.	Price Each
2450G	10	115	60	1	13	$20.95
79646-AU	12	115	60	2	25	35.95
79648-AU	16	115	60	3	28	41.95

EMERSON JUNIOR FANS



Four blades. Self aligning, wool packed bronze bearings with felt packed reservoirs. Ten inch fans have $\frac{5}{16}$ in. diameter steel shaft; and 12 inch fans have $\frac{3}{8}$ in. diam., steel shaft. Hinged desk bracket of 90° or 45°. Ornamental wire guard; spot welded joints. Fans have rubber covered cord and soft rubber plug. Approved by Underwriters. Finished in baked antique statuary bronze enamel. Nickeled trimmings.

No.	Size, in.	Volts	Current	Wt.,Pkd.	Price
2650-C	10	115	60 cy.	12	$14.95
2660-C	12	115	60 cy.	18	24.95

POLAR CUB
Breezemaker

Induction type motor, 110-120 volts, 60 cycles, A.C. Self-aligning, self-lubricating bearings with oil reservoir. Cast-iron stream-line base. Fan tips forward and backward. Sturdy quiet, worm drive oscillator with automatic safety release. May be operated as non-oscillating fan. Torpedo design motor shell, encloses gear unit. Four "Wind-duct" blades. Strong guard, bright finish. Ocean gray electrically baked finish.

Oscillating, Single-Speed

No. A-420— 8-inch ..... Each $ 9.35
No. A-430—10-inch ..... Each 12.50
No. A440—12 inch ..... Each 17.75

Six in a Carton

EMERSON ELECTRIC FANS

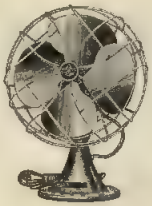
PATENTED OVER-LAPPING BLADES

5 Year Factory Guarantee

Type 6250-F

Type 6250-AJ

Type 6250-F desk fan and type 6250-AJ stand fan have 10 in. overlapping polished bronze blades and satuary bronze lacquer on other parts. Type 6250-G is finished in satin ivory with polished bronze blades. Quiet, induction type motors, streamlined enclosed shell, finger tip oscillation.



Type 77646 AS

Type 77646-AW

Types 77646-AS, 77648-AS and 77646-AW are finished in satin metalescent bronze; motor, base and guard in baked enamel, blades in lacquer, nameplate to match. Floor stand fans are adjustable from minimum 3 ft. 3 inches, maximum 4 ft. 9 inches floor to center of fan. Friction hinge for tilting up or down. Chuck arrangement with fluted collar for adjusting height of fan.

Alternating current-Oscillating Desk Fans

No.	Fan size	Volts	Cy.	Speeds	Wt. lbs. Pkd.	Price Each
6250-F	10	115	60	1	13	$23.95
6250-G	10	115	60	1	13	24.95
77646-AS	12	115	60	3	26	41.95
77648-AS	16	115	60	3	31	49.95

Alternating current-Adjustable Floor Stand Fans

6250-AJ	10	115	60	1	30	$34.95
77646-AW	12	115	60	3	49	56.95

Stock . . . Display . . . The Empire Complete Fast-Selling Line

No. 155—EMPIRE Aluminum Level—2 levels, 2 plumbs, 1—45° glass.

No. 28—EMPIRE Pocket Level of chrome aluminum, with pocket clip. Has proved level vial with ½° and 1° pitch graduations.

No. 151—EMPIRE Adjustable Aluminum Level—2 plumbs, 2 levels, and 2—45° or optional 2 level, 4 plumb glasses. Interchangeable vial cases. 18", 24", 28", 30" lengths.

No. 630—EMPIRE Wood Levels—4 plumbs, 2 levels, 3 piece laminated. Pine center mahogany edges—metal end plates. 48" length.

No. 153—EMPIRE Adjustable Aluminum Level—4 plumbs, 2 levels. Precision machined. Excellent for tile work. Interchangeable vial cases. 42" length.

No. 26—EMPIRE Aluminum Torpedo Level, with level, plumb and 45° vial, and ½° and 1° pitch graduations.

No. 29—EMPIRE Line Level, hexagon plastic, 3⅞" long, with hooks. Proved vial with colored fluid. Can be used on flat surface.

EMPIRE LEVEL MFG. CO.
Dept. HA, 10930 W. Potter Rd. • Milwaukee 13, Wis.

The Standard of Accuracy

Mention Hardware Age When Writing

VICTORIAN — Golden metal finish. **219J103** . . . Dealers Price **$4.50**

Also in silver electroplate. **219J104** . . . Dealers Price **$4.50**

DUCHESS — In silver electroplate. **219J100** . . . Dealers Price **$4.50**

FUTURA — Cigarette holder in silver electroplate; matches Futura table lighter. **219J105** . . . Dealers Price **$1.80**

FUTURA — Table lighter in silver electroplate. **219J106** . . . Dealers Price **$3.60**

NEW MAGIC LAMP — In silver electroplate. **219J107** . . . Dealers Price **$6.00**

STARDUST — Golden metal finish. **219J108** . . . Dealers Price **$6.00**

WINDSOR — In silver electroplate. **219J101** . . . Dealers Price **$3.00**

IMPERIAL—Golden metal finish. **219J110** . . . Dealers Price **$4.50**

Also in silver electroplate. **219J111** . . . Dealers Price **$4.50**

FAMOUS MAGIC LAMP — Golden metal finish **219J109** . . . Dealers Price **$6.00**

Also in silver electroplate. **219J97** . . . Dealers Price **$6.00**

Monogram .75 additional

Prices shown are the Fair Traded Retail Prices.

20-PAK—Combination cigarette case and lighter, non-tarnishing rhodium finish, holds regular or king size cigarettes. 232J119 . . . Dealers Price $6.00

Also in golden metal finish. 232J120 . . Dealers Price $6.00

WARWICK—Automatic pocket lighter in golden metal finish. 218J293 . . . Dealers Price $2.40

Also in nickel finish. (Retail $3.00) 218J294 . . . Dealers Price $1.80

BARON—Combination cigarette case and lighter in nickel finish. Holds 14 cigarettes. 232J121 . . Dealers Price $3.00

STARFLOWER—Combination cigarette case and lighter in golden metal finish. Holds 10 cigarettes. 232J122 . . Dealers Price $6.00

BARON—Automatic pocket lighter in nickel finish, matches cigarette case. 218J295 . . . Dealers Price $1.80

Also in golden metal finish. (Retail $4.00) 218J296 . . . Dealers Price $2.40

KINGSTON—Automatic pocket lighter in golden metal finish 218J283 . . . Dealers Price $3.00

EMBLEMS—Automatic pocket lighter in golden metal finish, available in Elk, Masonic and K. of C. Other emblems available on special order. 218J297 (Elks) . . Dealers Price $3.00

BARON—Cigarette case, nickel finish, holds full pack, matches lighter. 227J300 . . . Dealers Price $1.50

SPENCER—Automatic pocket lighter in golden metal finish matches cigarette case 218J298 . . Dealers Price $2.40

MONTEREY—Combination cigarette case and lighter in golden metal finish. Holds 14 cigarettes. 232J123 . . . Dealers Price $3.60

COSMOPOLITAN—Automatic pocket lighter in nickel finish 218J290 . . Dealers Price $2.40

CHANTILLY LACE—Automatic pocket lighter in golden metal finish. 218J299 . . . Dealers Price $3.00

SPENCER—Cigarette case in golden metal finish, matches pocket lighter. 227J301 . . . Dealers Price $1.80

MARQUIS—Automatic pocket lighter in golden metal finish and black enamel. 218J300 . . . Dealers Price $3.60

KENMORE—Combination cigarette case and lighter, nickel finish, holds 14 cigarettes. 232J116 . . Dealers Price $3.00

BARON SET—Lighter and Cigarette Case in gift box. Retail $5.50. 213J52 Each $3.30

SPENCER SET—Lighter and Cigarette Case in gift box. Retail $7.00. 213J53 Each $4.20

Prices shown are the Fair Traded Retail Prices.

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Also in nickel finish. (Retail $3.00) 218J294 . . . Dealers Price $1.80

BARON—Combination cigarette case and lighter in nickel finish. Holds 14 cigarettes. 232J121 . . Dealers Price $3.00

STARFLOWER—Combination cigarette case and lighter in golden metal finish. Holds 10 cigarettes. 232J122 . . Dealers Price $6.00

BARON—Automatic pocket lighter in nickel finish, matches cigarette case. 218J295 . . . Dealers Price $1.80

Also in golden metal finish. (Retail $4.00) 218J296 . . . Dealers Price $2.40

KINGSTON—Automatic pocket lighter in golden metal finish 218J283 . . . Dealers Price $3.00

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BARON—Cigarette case, nickel finish, holds full pack, matches lighter. 227J300 . . . Dealers Price $1.50

SPENCER—Automatic pocket lighter in golden metal finish matches cigarette case 218J298 . . Dealers Price $2.40

MONTEREY—Combination cigarette case and lighter in golden metal finish. Holds 14 cigarettes. 232J123 . . . Dealers Price $3.60

COSMOPOLITAN—Automatic pocket lighter in nickel finish 218J290 . . Dealers Price $2.40

CHANTILLY LACE—Automatic pocket lighter in golden metal finish. 218J299 . . . Dealers Price $3.00

SPENCER—Cigarette case in golden metal finish, matches pocket lighter. 227J301 . . . Dealers Price $1.80

MARQUIS—Automatic pocket lighter in golden metal finish and black enamel. 218J300 . . . Dealers Price $3.60

KENMORE—Combination cigarette case and lighter, nickel finish, holds 14 cigarettes. 232J116 . . Dealers Price $3.00

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FUTURA — Cigarette holder in silver electroplate; matches Futura table lighter. **219J105** . . . Dealers Price **$1.80**

FUTURA — Table lighter in silver electroplate. **219J106** . . . Dealers Price **$3.60**

NEW MAGIC LAMP — In silver electroplate. **219J107** . . . Dealers Price **$6.00**

STARDUST — Golden metal finish. **219J108** . . . Dealers Price **$6.00**

WINDSOR — In silver electroplate. **219J101** . . . Dealers Price **$3.00**

IMPERIAL—Golden metal finish. **219J110** . . . Dealers Price **$4.50**

Also in silver electroplate. **219J111** . . . Dealers Price **$4.50**

FAMOUS MAGIC LAMP — Golden metal finish **219J109** . . . Dealers Price **$6.00**

Also in silver electroplate. **219J97** . . . Dealers Price **$6.00**

Monogram .75 additional

Prices shown are the Fair Traded Retail Prices.

This is the Motor that lifts your sights to New Horizons of Outboard Usefulness and Boating Pleasure

BIG TWIN by Evinrude

35 HORSEPOWER*

Only 85 POUNDS

New HANDLING EASE

ROTO-MATIC CONTROL

GEARSHIFT

CRUIS-A-DAY TANK

it's years ahead!

You've heard about a great new Evinrude... a motor that packs the wallop of 25 sharp and solid horsepower *in only 85 pounds!* The motor that thrusts the thrill of exhilarating speed into big boats, heavy loads... the one that takes off like a scared cat, trolls like a sweetheart, handles like a dream, and is *excitingly priced* within the reach of all! *This is the one*... BIG TWIN... it's *years* ahead! With Simplex Starter for starting ease! And Roto-Matic Control—every speed in the turn of your hand! Gearshift with Neutral, Forward, Reverse! Separate, big-capacity Cruis-A-Day Fuel Tank! Full range performance—from less than 2 to over 30 miles an hour on able boats! *See the Big Twin*—see the complete line at your Evinrude dealer! Look for his name under "Outboard Motors" in the yellow pages of your phone book. *Catalog Free*—address...

$390.00

EVINRUDE MOTORS, 4609 N. 27th St., Milwaukee 16, Wisconsin

In Canada, Evinrude Motors, Peterborough, Ontario

F.O.B. Factory Subject to change without notice

*O.B.C. Certified brake H.P. at 4000 R.P.M.

"TOP 3" for fishin' fun
BIG TWIN
25 H.P.* Lowest weight per H.P.—leader in performance features, value! Roto-Matic speed control, Gearshift and Cruis-a-Day Tank
$390
FASTWIN
(as boat above)
14 H.P.* Only 65 lbs. Up to 22 miles on good-sized fishing boats. Gearshift with Neutral-Forward-Reverse. Cruise-a-Day Tank
$315
FLEETWIN
7.5 H.P.* Only 45 lbs. Tops in the light-weight field! Duo-Clutch gives "press-the-button" handling ease. Safti-Grip Drive for propeller protection
$210

TOO GOOD TO MISS!... the keen new thrills these great Evinrudes bring to fishing fun! *The thrill of speed* to make long runs in a fraction of the time! (With Big Twin, up to 30 miles an hour on comfortable fishing boats). The matchless convenience of Gearshift and Duo-Clutch! *New handling ease*... *and,* with Big Twin's and Fastwin's Cruis-a-Day Tank, carefree hours of running without re-fueling!

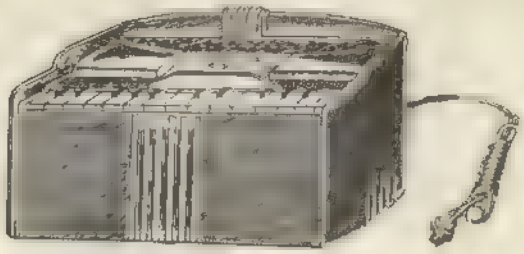
All this and trolling, too! Yes... even Big Twin, with its eager 25 horsepower, throttles down to a slow and steady gait that wins the most finicky fisherman! Dollar-wise, compare them against the field—for power, performance, features or *fun*—and you'll want to get your order in! *See your Evinrude Dealer*—look for his name in the yellow pages of your phone directory under "Outboard Motors." *Catalog Free*—write for it today!

*Power ratings are O.B.C. certified brake H.P. at 4000 R.P.M. All prices are F.O.B. Factory and subject to change without notice.

CATALOG FREE!
Write today for full-color catalog of complete Evinrude line for 1951.

EVINRUDE MOTORS
4631 North 27th Street
MILWAUKEE 16, WISCONSIN
In Canada:
Evinrude Motors, Peterborough, Ont.

EVINRUDE



Magnus Miniature Electric Organ

Youngsters and adults alike will thrill to the rich inspiring tones and easy playing qualities of this electric organ. 2 full chromatic octaves, 25 piano keys: 15 white, 10 black. Keys are large enough to permit playing with ease and comfort. Organ is electrically operated. Sensitive keyboard responds to slightest touch. True organ tone. Strongly constructed of approved materials, completely safe for children. Handsome colors, toned wood effects. Organ is portable, conveniently light to carry with you. Complete with simplified instruction song folio. Size over all 11⅛x6¼x5⅛ inches. 110-115 volts, A.C.

Retail $19.95 Each $12.00

No. 550 - HURDY GURDY

Plastic, 6¾" long, 7" tall. Monkey turns as music plays. Wheels turn.

Doz. $12.00

ARTHUR GODFREY UKE DEAL

Sensational! **4-in-1 Promotional Deal!**

1. Arthur Godfrey Uke Player Reg. $1.00
2. Flamingo Ukulele ..... Reg. $5.98
3. Professional Felt Pick .... Reg. $ .15
4. 16 Page Songfest Booklet .. Reg. $ .25

Regular Retail $7.38

Now Yours To Sell For Only $5.98

and you make your regular profits!

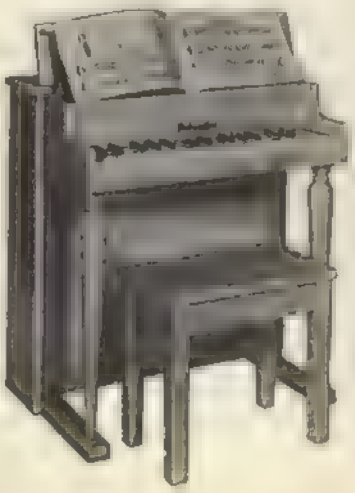
Each $4.00

Arthur Godfrey Uke Player, Retail $1.00 Doz. $8.00

Schoenhut

All SCHOENHUT PIANOS are specially designed and made with the unique SCHOENHUT tone rods imbedded in steel bars.

They are unquestionably the finest Pianos ever offered in any market.



#110/17 Walnut

17 Keys (Plastic)—10 whole notes and 7 half-notes

Size 11"x 9½"x 5½"

Std. Pkg. 1 Doz., Wgt. 36 lbs.

Doz. $33.50

#2130-0 Mahogany Finish

30 Keys: 2½ Octaves with half-notes

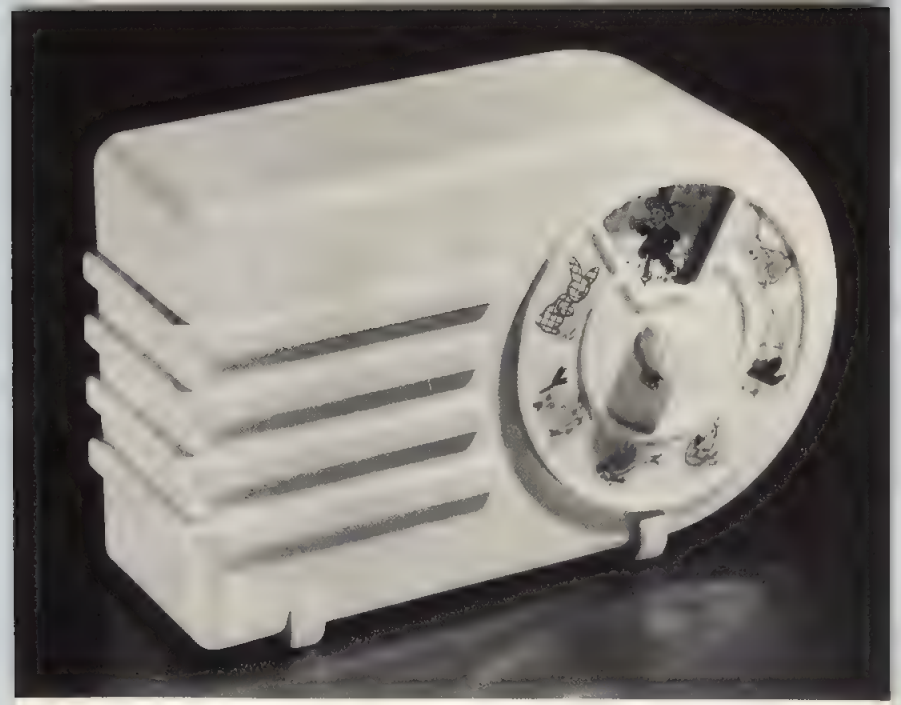
Size 13½" x 20" x 22"

Bench. 7-1/8" x 12" x 11¼"

Std. Pkg. Piano with Bench Wgt.26 lbs

Each $23.50

MUSIC SHEET WITH EVERY PIANO



F.B.A. presents for juvenile fun "MUSIPIX"

"Musipix"—the new wonderful music picture box. The delight of every boy and girl. Brilliant tone plus colorful pictures—combine to make this a sensational item. Full discount to jobbers, chains and department stores.

Specifications for No. 500. Individually boxed. One, two, and three dozen to a carton. Colors: Baby pink, baby blue, ivory. Assorted nursery rhymes. Weight: One dozen carton—15 pounds. Dimensions: "Musipix" — 9¼" long, 3" wide, 5⅝" high.

List Price $4.00

$32. doz.

FAIRFORM FLYER

SOUTH FLORIDA CRUISE

Frank Pembroke Huckins plans to cruise to Miami and intermediate ports, leaving Jacksonville February 17th, aboard his motor yacht *Fairfa* on which he cruised to Nova Scotia last summer. Henry Skinner Baldwin, Chairman of our Board plans to make the return trip.

We shall be happy to have substantial yachtsmen aboard who are potentially or objectively interested in the Fairform Flyer. For definite dates, docks and appointments, telephone or write to Dorothy Marks, Secretary, at Jacksonville.

The *Fairfa*, herself, a *Grand Manan 45*, is not for sale, but she exemplifies the highest development in a cruiser of her size. With her Vee Drive, Engines-in-Stern, she is the quietest motor yacht in captivity. Her sea speed is 18 knots cruising, with economy of operation and upkeep. And she is the last word in comfort.

The Fairform Flyer is built in a series of standard twin screw models, gasoline and diesel, from the *Pro Bono 34* to the *Caribbean 58*, sold direct to the owner with all the value put in the boat.

HUCKINS YACHT CORPORATION **FLORIDA MARINA**

ROOSEVELT HIGHWAY, LAKESHORE BOULEVARD, ORTEGA RIVER

POST OFFICE BOX 6336 JACKSONVILLE 5, FLORIDA TELEPHONE 2-1126

FAIRFORM FLYER

The Fairform Flyer continues to hold the highest reputational position among motor yachts because of:

1. INTEGRITY:

The Company adheres to the same standard of ethics continuously prevailing in Huckins business enterprise since AD 1832. Its advertising is factual. Its product performs as represented. It holds the unqualified good will of every member of its fleet.

2. QUADRACONIC HULL:

The essence of the Fairform Flyer is the Quadraconic Hull — a form of Planing Hull and the formulae to generate that hull in any size, conceived and developed by Huckins, whose propulsive efficiency and sea-keeping characteristics remain unequalled by any other motor yacht or PT Boat.

3. SAFETY AND SEAWORTHINESS:

During her entire history, a matter of some seventeen million passenger miles, no Fairform Flyer equipped with the Fairform Safety System has ever had fire or explosion or harmed anyone, nor has she failed to successfully survive the many storms and hurricanes to which she has been subjected.

4. DURABILITY:

Our earliest boats are still sound and in use. With decent care the Fairform Flyer is good for a lifetime — cheapest boats to own in the long run.

5. MATURITY AND VERSATILITY:

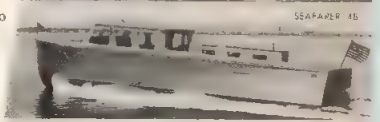
Fifteen standard models, with a wide variety of options, offer every feasible type, from the smallest practical cruiser to as large motor yacht as man desires — each matured to the highest degree through years of development.

6. COST:

Because of direct sale to the owner with all the value put into the boat, miniscule selling costs and minimum overheads, an highly efficient new plant and a splendid organization, the Fairform Flyer costs less than you think and is almost a competitive product today.

The Fairform Flyer is a sound long term investment yielding large returns in Health and Happiness

Visit our plant when South this winter
We solicit substantial inquiry



HUCKINS YACHT CORPORATION

P. O. BOX 6336 TELEPHONE 2-1126

JACKSONVILLE FLORIDA

LOOKING FOR SOMETHING *different* AT THE TOY FAIR ?

SEE US AT THE McALPIN ROOM 548

Have a look at the exhibit on Fantasy Doll kits! Here's a craft that every girl loves! Whether she's 8 or 68 years old . . . a doll she can assemble and sew for has great appeal. Here you have merchandise with real class that sells low, makes profits for you! Our re-orders have proven it over and over again.

Each kit furnishes all the finest precut materials necessary for the assembly of a 12-inch Fantasy Doll—from the pretty buckram face to her beautiful costume and accessories. Instructions are simple, easy to follow.

CLEVER!
CLEVER!
CLEVER!

BETTY AN' LOU KIT

Gives Them Two Dolls for the Price of One.
It's Novel!
Easy to Assemble!
Fun to Make!

MADE BY AMERICAN TOYS

RETAIL	
Dixie (above)	$3.00
Bride	$3.00
Bridesmaid	$2.50
Debutante	$2.50
Betty an' Lou	$2.00

CHRISTMAS STOCKING!

A sell-out in '50! Fully tailored, good grade cotton fabric, white felt cuff, hand blocked decorations. Customer transfers any name to the stocking with a stroke of a hot iron! 13 sets of the alphabet with each stocking.! Measures 19 inches from top of cuff to toe.

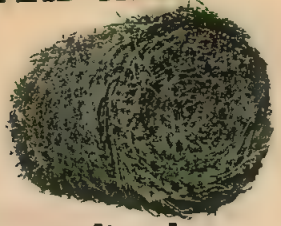
79c

Fantasy DOLLS

502 CRAIG STREET
CORPUS CHRISTI, TEXAS

Representatives:
W. E. Bergstrom Co., 623 Exchange Bldg., Denver, Colo.
Howard D. Chaddock 984 Sheridan, Memphis, Tenn
T. F. Sanford Co., Hendersonville, N. C
Wm. T. Starr, 3844 Travis St., Dallas, Texas
Donald Marx, 4412 Sunset Blvd., Hollywood 27, Calif.

POWER WAY



to quality hay

These are the fast-moving steps that capture the fragrant leafiness, the color and protein of weather-resistant rolled bales.

First you set the CA or WD Tractor's Power-Shift Wheels to *straddle* the swath cut by your Quick-Hitch Allis-Chalmers trail mower. Engine power instantly spaces the rear wheels so they no longer trample the hay.

Tedding a new leaf-saving way can often be your next move to speed curing and shorten the time of exposure to the weather. Rotary tedding with the Allis-Chalmers Power Rake lifts damp hay out of the stubble and aerates either swath or windrow. It sets rain-soaked windrows over on dry ground. For tedding, you simply shift the reel to reverse.

A third time-saving step is *twin* windrowing—laying two normal size windrows side by side for the big-capacity ROTO-BALER. This speeds up baling and cuts field travel distance in half.

Fourth—your ROTO-BALER then rolls the hay into bales that *seal in* the leaves . . . *seal out* the rain. It's baling at its best . . . with equipment you can afford for your own farm.

POWER RAKE AND TEDDER

ROTO-BALER

ALLIS-CHALMERS
TRACTOR DIVISION—MILWAUKEE 1, U.S.A.

ROTO-BALER is an Allis-Chalmers trade-mark

alone the first year. But the *next* year, he harvested an extra 1½ tons of hay from each phosphated acre. The superphosphate pepped up the legumes in the meadow.

Best way to find out what your meadows will do with plant food is to test your soil and maybe do a little experimenting on your own.

Soybeans Pay Off For Delta Farmers

In case you think soybeans are strictly a Corn Belt crop, take a look at the whopping yields reported by farmers in Washington County, Miss.

C. E. Robbs raised 200 acres of Ogden soybeans that averaged 55 bushels per acre. O. B. Tucker combined 48 bushels per acre from a 22-acre patch. I. D. Nunnery harvested 75 bushels per acre from one field, and grew several hundred acres that averaged 55 bushels.

County Agent L. H. Mosely estimates that the 45,000 acres of soybeans harvested in Washington County last year averaged 35 bushels per acre.

Of course cotton is still the chief crop in this area, and more land will go into cotton this year than last.

But farmers in the three Delta states—Mississippi, Arkansas, and Louisiana—harvested a record-breaking 830,000 acres of soybeans last year. Now that they've got the equipment to handle them, most of these farmers plan to keep on growing soybeans. At $3 per bushel, the net profit from a 50-bushel-per-acre soybean crop compares very favorably with cotton.

New Varieties

Cotton. *Arkot 2-1*, developed at the Arkansas Experiment Station, forms bolls and matures much earlier than most other varieties. This means a better grade, and is a big advantage when boll weevils are bad. Its fibers are long, strong, and fine, with a gin turn-out of 34½% to 36½%. Spinning and fiber tests have won it approval for processing. It's easy to pick, either by hand or with a machine. You can get seed.

Wheat. *Nugget*, developed by USDA and the North Dakota Experiment Station, is likely to push the durum area farther south, because it is earlier than the varieties now being grown. However, Nugget usually doesn't outyield later varieties (such as Stewart, Vernum, and Mindum) when it is grown in the northern part of the durum area.

The new durum comes from Mindum-Carlton and Heiti-Stewart crosses, resists rust (except Race 15B), and makes rich, amber-colored macaroni. Some seed is available.

Contributors to this month's Crops and Soils department: Lowry H. Hertzog, Union Springs, Ala.; Walter J. Hunt, St. Paul, Minn.; Phil J. Patterson, Colorado A. & M. College; Willard Schaal, USDA.

Chopper History is being made... by GEHL owners

● *Again* last year, Gehl sold more forage harvesters than any other independent manufacturer. As one of the first to build forage harvesters, Gehl has developed a machine that's outstanding in fine performance and compact, sturdy construction. Users everywhere praise its fast, clean, uniform chopping. It makes silage that packs well and keeps better.

Quick Change-over For 3-WAY Harvesting

2 GRASS SILAGE... with mower-bar attachment and own motor, also available with power take-off

3 CORN SILAGE... with row-crop attachment and power take-off, also available with own motor.

ANY OF THE 3 GEHL UNITS ATTACHED IN A FEW MINUTES

Hay Pickup . . . picks up dry hay, straw or grass for hay or silage . . . chops it and blows it into wagon.

Mower Bar . . . for grass silage. This newly-developed Gehl Attachment mows and chops the usual low-growing crops such as Alfalfa and Brome, also the new tall-growing "bal-anced silage" mixtures such as Millet, Sudan Grass, Soy Beans, Sorghum and Cane, sowed broadcast.

YOU CAN'T GO WRONG WITH A GEHL

Gehl has earned the confidence of farmers everywhere. Its ability to build better forage-cutting machinery dates back to the first silo fillers. Talk with owners of Gehl Forage Harvesters . . . even those who bought the first ones built years ago. They are still doing a good job . . . saving men, time and money. Compare . . . get all the facts . . . *see the Gehl before you buy.*

Exclusive . . . . .

ROW CROP ATTACHMENT . . . Cuts standing Corn, Cane, etc. for sugar. Patented Auger-Type Gatherers (instead of Chains) no break downs . . . less tendency to knock off ears

GEHL EQUIPMENT DOES THE COMPLETE JOB FROM FIELD TO STORAGE

One basic harvesting machine takes all 3 quick changeover units. *Powerful, Air-up GEHL BLOWER* elevates to highest silo or mow. Power take-off from blower or separate electric drive operates GEHL SELF-UNLOADING WAGON and others.

FREE WAGON PLANS for building your own self-unloading wagon box . . . using Gehl kit of complete hardware. Send coupon below.

Gehl self-unloading wagon and blower

FREE BOOK... Paste this on a penny post card and mail today

GEHL BROS. MFG. CO., Dept. MC-512, West Bend, Wisconsin
Please send me FREE BOOK giving description of Gehl Forage Harvesters, Blowers, Forage Wagons and name of nearest dealer ☐
Send Free Wagon Box Plans ☐

Name . . . . . .

Address . . . . . .

THERE'S NOTHING BETTER THAN A GEHL!

DAIRY

Photo: Terry Pettibone

Safety Breeding Chute

Gate separates cow stanchion, right, from the bull pen at left. A fence is always between the bull and the owner, M. Hughes, Goshen Co., Wyo.

"a refined-looking Holstein chockful of milk."

An example of the uniformity he's achieved: when he sold off 14 cows in 1947, buyers found it hard to choose between them; they looked like peas in a pod, and all 14 had records hovering around 16,000 pounds of milk and 600 pounds of butterfat.

Everyone shouldn't try it, says Eddy. You've got to be mighty choosy about which animals you mate. He doesn't know how much further he can go before a freak calf might show up. But this much he does know: "I haven't seen a single reason why I should stop. I've not had to discard a single animal yet because of an inferiority of any kind."

Hogs Get Bang's from Drinking Cow's Milk

We now know that hogs can get Bang's disease by drinking milk from cows infected with the swine type of Bang's germs (Brucella suis). This has just been proven in recent experiments at Purdue University.

But hogs didn't get Bang's disease from drinking milk from cows infected with the cattle type of Bangs (Brucella Abortus).

The same experiments also show that germs of the goat type of Bang's (Brucella melitensis) can stay alive in pork right through refrigeration and salt treatments, but are killed by smoke treatment.

If Bang's disease does get started in your hogs, you can expect it to be even harder to get the trouble cleared off your place. Here's why:

1. Both male and female hogs, and hogs of all ages, are susceptible.

2. Bang's germs get an easy foothold in hogs through their eyes, mouth,

Ficks REED FURNITURE

A

B C

D

E

MALAY MODERN FURNITURE BY FICKS. Genuine East Indies rattan—durable and strong. Ideal for living room, porch, dining room, bedroom, or recreation room. Natural rattan color finished with clear spar varnish. . . . Table tops are Oak veneer. . . . Cover Fabrics: Canetex, vat-dyed sail-cloth in solid colors. Also screen prints in Palmetto (see design above) or Coffee Leaf (see design below). Permatex vinyl-coated, water repellent fabric in Cinnamon, Saffron, Mint, Peacock or Papaya. Cushions—all loose seat and back cushions are regularly made reversible. Wherever screen prints or stripes are used on such cushions, the boxings and reverse sides are covered in harmonizing plain fabric unless otherwise specified. All cushions are piped in same or contrasting material. BE SURE TO MENTION MATERIAL AND COLOR DESIRED ON ALL ITEMS.

Ⓐ **Settee.** Reversible spring cushions. Spring underconstruction. **Seat size: 50x24".** Back height 20". Ship. wt. 85 lbs.
40F9050-SSU ..... EACH **$89.95**

Ⓑ **Ottoman.** Reversible spring cushion. **Size: 20x20".** Ship. wt. 20 lbs.
40F9251-U ..... EACH **$21.15**

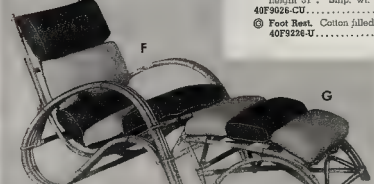
Ⓒ **Chair.** Reversible spring cushion. Spring underconstruction. Seat size: 22x24". Back height 26" Ship. wt. 40 lbs.
40F9051-CU ..... EACH **$46.00**

Ⓓ **Lamp Table.** Solid wood top. **Diameter 18"; height 22".** Ship. wt. 30 lbs.
40F9371 ..... EACH **$10.95**

Ⓔ **Chair.** Padded seat size 16x15" Back height 17". Ship. wt. 20 lbs. **Be sure to specify color.**
40F9115CU ..... EACH **$17.65**

Ⓕ **Lounge Chair.** Cotton filled cushions. Overall width 28", overall length 38", and overall height 31". Ship. wt. 40 lbs.
40F9026-CU ..... EACH **$50.00**

Ⓖ **Foot Rest.** Cotton filled cushions. **Overall size: 23x27".** Ship wt 20 lbs.
40F9226-U ..... EACH **$24.00**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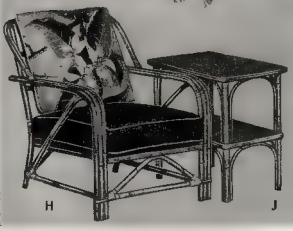
Ⓗ **Chair.** Reversible spring cushion. Spring underconstruction. Seat size: 22x24". Back height 20". Ship. wt. 40 lbs.
40F9050-CU ..... EACH **$37.65**

Ⓙ **End Table.** Oak veneer top and shelf. **Top size: 14x24".** Height 22". Ship. wt. 30 lbs.
40F9327 ..... EACH **$15.80**

Ⓚ **Cocktail Table.** Oak veneer top and undershelf. **Size 18x30x 18" high.** Ship. wt. 30 lbs.
40F9329 ..... EACH **$24.35**

Ⓛ **Chair. Vinyl coated webbing for seat and back.** Seat size: 18x17". Back height 16". Ship wt. 20 lbs.
40F9039-CB—**Specify webbing color** ..... EACH **$17.65**

ALL PRICES F.O.B. FACTORY, OHIO
Note: No C.O.D. Orders Accepted on Furniture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J K

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FICKS REED RATTAN FURNITURE

THE FURNITURE OF ROMANCE

- MADE OF EAST INDIES RATTAN
- TABLE TOPS OF OAK VENEER
- FINISHED WITH SPAR VARNISH
- ASSEMBLED WITH BRASS NAILS AND SCREWS
- COLOR FAST SAILCLOTH FABRICS

FICKS REED. . . . The first name in Rattan Furniture.—Quality made of East Indies rattan and assembled with the use of brass nails and brass screws eliminating the possibility of any rusting on exposure to weather. All rattan parts are finished in finest marine grade spar varnish. The fabrics are of sail cloth . . . solid colors. Yet dyed and patterned fabrics silk screen prints. These materials are fast color, waterproof and mildew proof. All pieces are standard size. Tables have comb brushed oak veneer tops and are covered with plate glass that is ribbed on the underside to give a textured appearance. The most beautiful, most sturdy RATTAN FURNITURE on the market today.

1 FICKS REED RATTAN SETTEE—Sturdy construction, padded back and seat Covered in color fast, sail cloth with your choice of Coral or Blue background **SPECIFY** All Rattan parts are finished with spar varnish and are cinnamon color Weight 170 lbs Retail 175.00
No. 7F9042-6SU. Dealer's, each 123.00. Less 2% net..... **120.54**

2 FICKS REED RATTAN ARM CHAIR—Sturdy construction, padded back and seat covered in color fast, sail cloth with your choice of Coral or Blue background All Rattan parts are finished in spar varnish and are cinnamon color. Weight 40 lbs Retail 75.00
No. 7F9042CU. Dealer's, each 51.65. Less 2% net **50.61**

3 FICKS REED RATTAN FOOT-REST Sturdy construction, padded seat Matches arm chair and settee Covered in color fast sail cloth in your choice of Coral or Blue background All rattan parts are finished in spar varnish and are cinnamon color. Weight 22 lbs Retail 36.75
No. 7F9242U. Dealer's, each 24.73. Less 2% net **24.25**

4 FICKS REED RATTAN GLASS TOP END TABLE — Sturdy Rattan construction Table top is of comb brushed oak veneer in natural finish. Glass top makes use of a textured ribbed underneath), plate glass. All rattan parts are finished in spar varnish and are of a cinnamon color. Weight 20 lbs. Retail 32.50
No. 7FR9369G Dealer's each 22.25. Less 2% net **21.80**

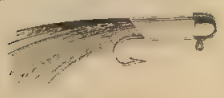
5 FICKS REED RATTAN GLASS TOP COCKTAIL TABLE—Sturdy rattan construction Table top is of comb brushed oak veneer in natural finish Plate glass top is ribbed underneath to give a textured finish All rattan parts are finished in spar varnish and are of a cinnamon color Weight 25 lbs Retail 45.00
No. 7F9369G. Dealer's, each 30.00. Less 2% net **29.40**

6 FICKS REED RATTAN TRIM TABLE LAMP. Modern in design, finest in construction Base is of a natural wood cylinder with rattan trim The shade linen crash with natural straw braid trim Matches perfectly with all FICK'S REED RATTAN FURNITURE Retail 45.00
No. 7FL180A. Dealer's each 30.25 Less 2% net **29.74**

FURNITURE NOT INCLUDED IN OUR PREPAID FREIGHT OFFER

Bass Baits

Go Getter—Feather—Fresh Water

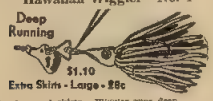


The only crappie and bluegill lure made with correct flair of hackles and trim hackles. Length 2 inches, No. 6 hook.

Stock No.	Color	Cat. List EACH
2V 1375	Red & White	$0.20
2V 1376	Red & Plymouth Rock	.20
2V 1377	Yellow & Plymouth Rock	.20

One-half dozen in an envelope.

Hawaiian Wiggler—No. 1



Assorted colors and skirts. Wiggler runs deep

Stock No.	Mfr's. No.	Min. Retail Fact. List EACH
2V 705	1	$1.00 $1.25

One-half dozen in an assortment.

Hawaiian Wiggler—1½

Medium runner. Assorted colors and skirts. Single spinner. One-half dozen in an assortment.

Stock No.	Mfr's No.	Min. Retail Fact. List EACH
2V 708	165S A	$1.00 $1.15

One half dozen in a carton.

Hawaiian Wigglers—No. 2

With Single Spinner—Runs Shallow

Red and green metal fish head with rubber hula skirt—single spinner

Stock No.	Mfr's. No.	Min. Retail Fact. List EACH
2V 706	2	$1.00 $1.15

One dozen in a box.

Hawaiian Wiggler—Sputterfuss

Bass will strike at the noisy, fast bait when too wise to take a slow lure. To change the sound effects vary the reeling and hold the rod tip high or low. Should be retrieved quickly enough to sputter along the surface. Weighs ⅜ oz.

Stock No.	Mfr's. No.	Color	Min. Retail Fact. List EACH
2V 744	2½	Frog	$1.00 $1.15
2V 745	2½	Yellow	1.00 1.15
2V 746	2½	Red & White	1.00 1.15

One in a box, one-half dozen in a carton.

Hawaiian Wiggler Assortment

Assorted skirts and colors—Nickle plate, red stripe, black stripe yellow and scale. One-half dozen to an assortment. Will not snag is semi-no weedless bait.

Stock No.	Mfr's No.	Min. Retail Fact. List ASSORTMENT
2V 707	No 3 Asst	$6.00 ▲$6.90

One assortment in a carton

Extra Rubber Hula Skirts For Hawaiian Wigglers

Will fit all styles of Hawaiian wigglers.

Stock No.	Mfr's. No.	Color	Min. Retail Fact. List EACH
2V 732	4004	Red & Wh	$0.24 $0.28
2V 733	4006	Bl. & Wh.	.24 .28
2V 734	4007	Red & Yel.	.24 .28
2V 735	4008	Yel. & Bl.	.24 .28
2V 736	4003	Yellow	.24 .28
2V 737	4001	White	.24 .28

One dozen in a box

Hula Dancer Plug

Molded of solid tenite, durable as it is a deadly killer. Small but heavy enough for long casts. Used with the small sized Hula skirt. Her incredible Hula Hula dance lures fish that pass up the old fashioned plug.

Stock No.	Mfr's. No.	Color	Oz. Each	Min. Retail Fact. List EACH
2V 763	800R	Red Head	⅝	$1.09 $1.25
2V 764	804S	Green Scale	⅝	1.09 1.25
2V 765	805P	Perch	⅝	1.09 1.25
2V 766	801F	Frog	⅝	1.09 1.25
2V 767	803Y	Yellow	⅝	1.09 1.25
2V 768	802B	Black	⅝	1.09 1.25

One in a box one-half dozen in a carton.

Hula Popper

The best combination of noise, action, casting and hooking qualities. The Hula skirt makes it alive so it takes more bass than the old fashioned buzz. Skirts are quick change

Stock No.	Mfr's. No.	Color	Oz. Each	Min. Retail Fact. List EACH
2V 775	750R	Red Head	⅝	$1.09 $1.25
2V 776	751F	Frog	⅝	1.09 1.25
2V 777	752Y	Yellow	⅝	1.09 1.25

One in a box, one-half dozen in a carton.

Jitterbug

Noisy rollicking, wiggling surface dancer that kills bass day or night. Self-starter, you don't have to jerk to make it work. The Jitterbug is small for a floater, has the hooks placed scientifically, close together, right where the bass strikes.

Stock No.	Mfr's. No.	Color	Min. Retail Fact. List EACH
2V 753	600B	Black & Silver	$1.09 $1.25
2V 754	605P	Perch	1.09 1.25
2V 755	601F	Frog	1.09 1.25
2V 756	600R	Red & White	1.09 1.25

One in a box. One dozen in a carton.

▲ We do not break assortments

Again... in 1951

Flambeau

"The Motor of the Year"

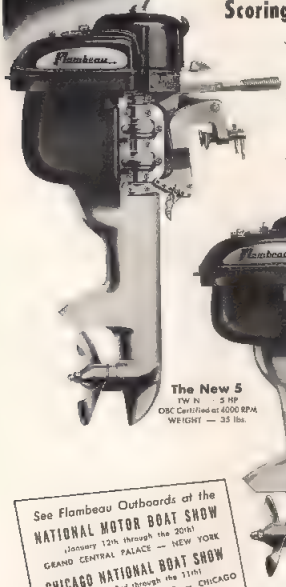
Scoring FIRST for Basic Outstanding Values:

★ A simplified, single, *UNI-LEVER* control assures right fuel mixture for peak performance at any speed. Foolproof. An inexperienced operator — or a child — can run a Flambeau efficiently in ten minutes or less.

★ A new *visual-control priming* gives a quick, flashy start at all times—avoids flooding, again simplifies operation.

★ *The LIGHTEST WEIGHT in their HP class.* Flambeau motors are originators of compact, lightweight design — 1951 models are unmatched in light weight — the 5 hp Twin weighs only 35 lbs. — the 2½ hp single only 29 lbs.

Built for LONG SERVICE — Trouble-free—With Least "SERVICING." Design experience, combined with high-precision manufacture, insures the most in sustained, carefree performance with a very minimum of "service" attention.



The New 5
TWIN — 5 HP
OBC Certified at 4000 RPM
WEIGHT — 35 lbs.

The New 2½
SINGLE — 2½ HP
OBC Certified at 4000 RPM
WEIGHT — 29 lbs.

See Flambeau Outboards at the
NATIONAL MOTOR BOAT SHOW
(January 12th through the 20th)
GRAND CENTRAL PALACE — NEW YORK
CHICAGO NATIONAL BOAT SHOW
(February 2nd through the 11th)
INTERNATIONAL AMPHITHEATER — CHICAGO

Choose Flambeau and get *ALL* these features: Truly Outboard . . . No-Shear Pin . . . Patented Propeller Clutch . . . Two-Piece Over-All "Open-Book" Housing . . . "Jabsco" type Patented Water Pump keeps water intake free of weeds and clogging . . . positive Tilt-up Lock . . . fresh-water Flush-out for salt-water boating. These top-quality features again make Flambeau outboards "The Motor of the Year." Write today for literature and complete information. METAL PRODUCTS CORPORATION, Dept. MB 511, 245 E. Keefe Ave., Milwaukee 12, Wisconsin.

DEALERS — The Flambeau franchise is desirable and profitable—write, wire, or phone (Milwaukee—COncord 4-9300) for information. DISTRIBUTORS—select territories still open — suggest you act promptly — get complete information.

IF YOU LOVE IT ON SIGHT

It's a Fleischaker Doll

WHY?

BECAUSE
Fleischaker Dolls have real, human hair — rooted in the scalp — that can be washed, curled, combed like a real child's. (NOT A WIG.)

BECAUSE
they have glowing, tub-fresh skin — like a real child's.

BECAUSE
they're dressed in fashion-designed, Sunday-best dresses — the kind every child wants.

BECAUSE
they're the very next things to what the Stork brings!

TALK OF THE TOY FAIR
FLEISCHAKER'S "LITTLE GIRL"
• 22 Inches tall
• Moving Eyes
• Fashion Trend Costumes
• Human Hair (not a Wig)
• All Soft Plastic
from $25.00 avg. retailer
• New 22" size
from $17.95 avg. retail

IF YOU LOVE IT ON SIGHT
it's a Fleischaker Doll

Fleischaker
NOVELTY COMPANY
555 ROSE AVENUE, VENICE, CALIFORNIA

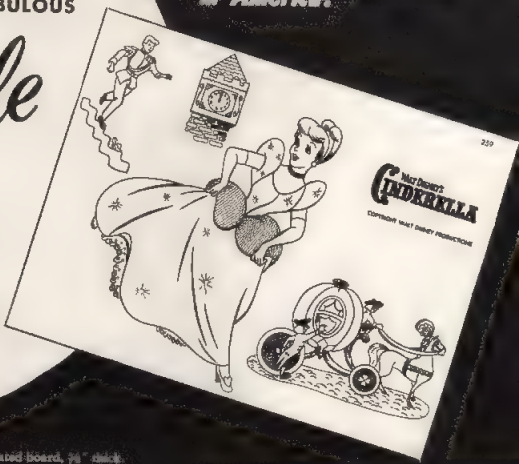
NEW!

DOLLY TOY ADDS THE MAGIC OF WORLD FAMOUS WALT DISNEY CHARACTERS TO ITS FABULOUS PIN-UP LINE . . .

Fairytale

PIN-UPS by WALT DISNEY

DOLLY TOY PIN-UPS . . .
the fastest growing, biggest selling pin-ups in America!



ur complete, charming stories exquisitely
ustrated in 8 gloriously brilliant colors
Walt Disney. These lovable Disney
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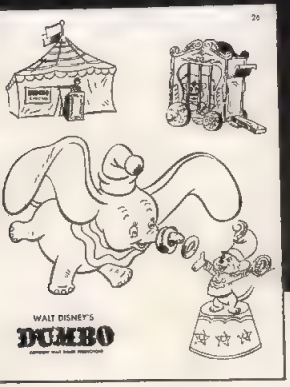
ungsters and parents everywhere. Just
e the other best-selling Dolly Toy Pin-
os, Fairytale Pin-Ups by Walt Disney
e designed to sell $1.G overnight!

Made of heavy laminated board, 24" thick. Central figure of these three dimensional cut-outs approximately 18" high. Each piece comes complete with materials for hanging, and suggested layout for wall decoration. Gift packed.

$2.49
RETAILERS



WRITE FOR BEAUTIFUL FULL COLOR CATALOG OF COMPLETE PIN-UP LINE

THE DOLLY TOY COMPANY

TIPP CITY, OHIO

New York Office and Showroom	Chicago Office	Denver Office and Showroom	Atlanta Office	San Francisco Office & Showroom	Canadian Representative
HERMAN ROBBEN 200 FIFTH AVENUE	A. C. BISSELL 335 WEST MADISON ST.	W. E. BERGSTROM SALES CO EXCHANGE BLDG.	SAM KING 201 LUCKIE, N.W.	KEN ROBERTS MERCHANDISE MART	DAVID CAMPBELL 4896 SHERBROOKE, WEST

Mommie's Little Angel

The cuddly doll that kneels and prays

You are cordially invited to view the

Fleischaker Dolls for 1951

at

Rooms 701-702
HOTEL NEW YORKER

MOMMIE'S LITTLE ANGEL
NEW SCHOOLGIRL DOLLS
BI-BYE BABY
TENDERFOOT

Famous Television Puppets
BEANY AND HIS PALS

The doll that gives the child an incentive to kneel and say her prayers! Elastic plastic head and hands. Full cotton stuffed body. Dressed in panties, slip, kimono, and crocheted booties, she wears wings and a gold halo. Comes in 4 colors.

W. E. FLEISCHAKER, SR.
W. E. FLEISCHAKER, JR.
TURA MUSSO

If you love it on sight, it's a FLEISCHAKER doll

FLEISCHAKER NOVELTY COMPANY
555 ROSE AVENUE, VENICE, CALIF.

Fleischmann

"SEASONED HICKORY"

Handles

WE SPECIALIZE in the manufacture of hickory striking tool handles for tool manufacturers, hardware jobbers and the mill supply trades, meeting their most rigid demands for precision and uniformity.

Every handle is seasoned from the center outwards in modern, forced draft kilns. Moisture content is automatically controlled to retain the natural resiliency and strength of the long-fibered, heavy Appalachian hickory which we exclusively use.

We Always grade up to a quality, never down to a price!

Beautiful gold stamping and attractive bright colored labels add greatly to the saleability of our product.

Prompt deliveries in any quantity are assured from the largest single plant of its kind in the United States.

Money back guarantee on all merchandise. We'll be glad to send you our latest price list, and to work with you in every way.

FLEISCHMANN HANDLE COMPANY

A DIVISION OF THE FLEISCHMANN CORPORATION

TOWER BUILDING · BALTIMORE 2, MD.

Plants in Virginia and Tennessee

Ⓐ 6.95 Ⓑ 5.75 Ⓒ 3.49 Ⓓ 3.98

Ⓖ 5.98 Ⓗ 4.89 Ⓛ 5.45 Ⓜ 4.45 Ⓝ 2.98

Ⓙ 2.89 Ⓚ 2.79 Ⓟ 4.45 Ⓡ 2.98

Rugged Sports Gifts that Will Please any

Ⓐ BLUE ARROW 3-PLY BASKETBALL. Meets all official specifications. Will not scuff, rip or absorb moisture. Ideal for indoor or outdoor play. Laminated 3-ply Vita-Weld construction. Leather effect outer rubber cover is coated with "Sunite" armored scuff and scratch preventive. Striped seams. With needle.
60 W 5311—Ship. wt. 2 lbs. 4 oz. 6.95

Ⓑ RED ARROW 2-PLY BASKETBALL. 2-ply Vita-weld construction will give good all around service on any playing surface. Official size, weight. Pebble-grain, natural leather color cover with striped seams. "Sunite" coating prevents scuffs, scratches. With needle.
60 W 5309—Ship. wt. 2 lbs. 4 oz. 5.75

Ⓒ LAMINATED RUBBER BASKETBALL. Scholastic size—slightly smaller than official size—easier for youngsters to handle. Resistant to rips, scuffs. Laminated rubber construction, with bladder for greater strength. More durable than all-rubber balls. With needle.
60 W 5313—Ship. wt. 2 lbs. 2 oz. . . . 3.49

Ⓓ TEXHIDE LACELESS BASKETBALL. Popular laceless type construction with striped seams. Official size, weight. Ideal for youngsters just learning the game. Cover made of pebble grained Texhide—a durable artificial leather that stands rough treatment. Valve-type bladder. Needle included.
60 W 5307—Ship. wt. 2 lbs. 4 oz. . . 3.98

Ⓔ 3.59

Ⓔ WARDS REGULATION GOAL. Better Quality. No. 48 seine twine net laces under ½-in. round steel rim. Iron mounting bracket, bolts. Ship. wt. each, 10 lbs.
60 W 5256 M—*Matlable.*
One goal. . $3.59; Pair 6.98

Ⓕ 2.29

Ⓕ WARDS PRACTICE GOAL. For backyard or playground use. No. 36 seine twine net laces over ½-in. official size round steel rim. Mounting bracket, bolts. Ship. wt. each, 7 lbs.
60 W 5255 M—*Matlable.*
One goal. . $2.29; Pair 4.40

Ⓖ SID LUCKMAN CHICAGO "T" BEARS FOOTBALL. Better Quality. Official size and weight. Select top grain pebbled Cowhide cover. Double lined. Flat double sure-grip lacing.
60 W 5528 Needle incl. Ship. wt. 1 lb. 10 oz. 5.98

Ⓗ SID LUCKMAN "QUARTERBACK" FOOTBALL. Finest tan split Cowhide cover with white stripes for day or night play. Official size and weight. Pebble grain finish. Double lined.
60 W 5521—Needle incl. Ship. wt. 1 lb. 10 oz. 4.89

Ⓙ Ⓚ JOHNNY LUJACK "PASSMASTER" FOOTBALLS. Official size, and weight. Made by Wilson. Pebble grain Texhide (artificial leather) cover. Needle. Ship. wt. 1 lb. 10 oz.
(J) 60 W 5520—WHITE DAY-NIGHT. White with Black stripes. 2.89
(K) 60 W 5518—TAN DAY-NIGHT. Tan with White stripes. . . . 2.79

Ⓛ BOBBY LAYNE HELMET. Blue plastic, white stripe. Protective leather-covered sponge rubber padding. Aviator type. *Sizes:* Small (up to 6¾), Medium (6⅞–7⅛), Large (7¼–7½).
60 W 5592—*State size.* Ship. wt. 1 lb. 8 oz. Adj. chin strap. . . 5.45

Ⓜ YOUTHS' "CHOO CHOO" JUSTICE HELMET. Red plastic, White stripe. Felt, leather protective padding. Aviator type. *Sizes:* Small (up to 6¾), Med. (6⅞–7⅛), Lge. (7¼–7½)
60 W 5586—Adj. chin strap. *State size.* Ship. wt. 1 lb. 8 oz. . . . 4.45

Ⓝ BOYS' HARRY GILMER HELMET. White fiber crown, blue Textron (artificial leather) trim. Felt lined, leather forehead pad. Adj. strap. *Sizes:* Small (up to 6¾), Med. (6⅞–7⅛), Lge. (7¼–7½).
60 W 5585—*State size.* Ship. wt. 1 lb. 2 oz. 2.98

Ⓟ BOBBY LAYNE SHOULDER PAD. For boys up to 16. Cantilever type. Corrugated fiber body, shoulder caps. Kapok padding.
60 W 5576 –Fabric neck binding. Ship. wt. 2 lbs. 4.45

Ⓡ "CHOO CHOO" JUSTICE SHOULDER PAD. For boys up to 10. Cantilever type. Fiber body, shoulder caps. Kapok padding.
60 W 5573—Fabric neck binding. Ship. wt. 1 lb. 4 oz. . . . 2.98

FOOTBALLS – BASKETBALLS – VOLLEY BALLS

Football of Regulation Size. Made of 50 oz. Dupont fabric that looks like real full grain leather. Extra heavy lining. All rubber valve bladder. Equipped with inflating needle. 3 dozen to box

No. 12R57. Per dozen **14.12**

Official Night Football. Made of 115 oz. simulated leather fabric, white with black stripes. Official size and weight. Packed 2 dozen

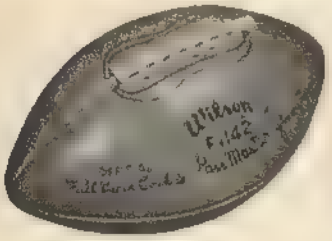
No. 12R51. Per dozen..... **25.10**

Wilson's Johnny Lujack Model Football. Official size and weight. Made of Dupont fabric that looks like real leather. Double lined. Packed each in box.

No. 12R48. Each.. **2.62**

Wilson Charley Trippi Autographed Football. Full size. Pebbled cowhide. Double lined

No. 12R58. Each. **4.58**



Wilson Official Intra-Mural Football. Made of selected full grain pebbled cowhide with a double lining. This ball is made to stand long service. Packed each in box

No. 12R14. Each..... **5.50**

Wilson Johnny Lujack Official Football. Official size and weight. Made of top selection, full grain pebbled steerhide with double lining for added strength and durability. Rawhide leather lacing. Rubber valve bladder

No. 12R58. Each. **7.84**

Wilson Official National Professional League Football. Made of selected full grain pebbled cowhide. Natural finish. Triple lining for added strength

No. 12R59. Each..... **13.72**

Basket Ball Goals. For backyard practice and play. 16 inch ring of ½ x ⅜ inch steel. Riveted to braceless type steel brackets. Enameled in black, complete with nets

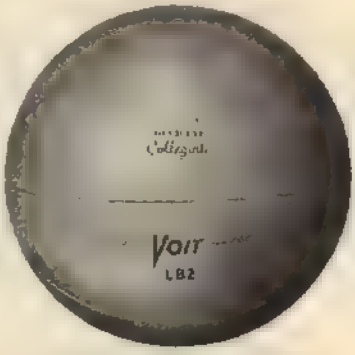
No. 12R1. Per pair..... **3.40**

Bay's Basketball. Made of 50 oz. DuPont fabric that looks like real full grain leather. Full fabric lining. Packed 1 dozen in box

No. 12R53. Per dozen..... **22.00**

Official Rubber Basketball. Molded of 3 ply sturdy rubber complete with bladder. Official size, weight and performance. Packed 1 dozen in box.

No. 12R52. Per dozen. **49.67**



Basketball. Covered with specially compounded long-wearing rubber. Lined with Voit fabric. Tough full molded natural rubber bladder. Official size shape, weight. Complete with standard inflating needle

No. 12R100 Each..... **4.69**

Wilson Indestructo Rubber Covered Basketball. Made of fine quality rubber covering with mutliple ply fabric lining. Will give durable service on any playing surface. Absolutely waterproof. Official size and weight

No. 12R62. Each..... **9.22**

Wilson Prep Basketball. Sturdily constructed throughout. Made of pebbled grain cowhide with double lining for added strength and durability. Rubber valve bladder.

No. 12R60. Each..... **6.28**

Official Sturdi-sphere Basketball. Made of durable peppled cowhide over newly developed carcass. Channel seams

No. 12R61. Each..... .. . **11.70**

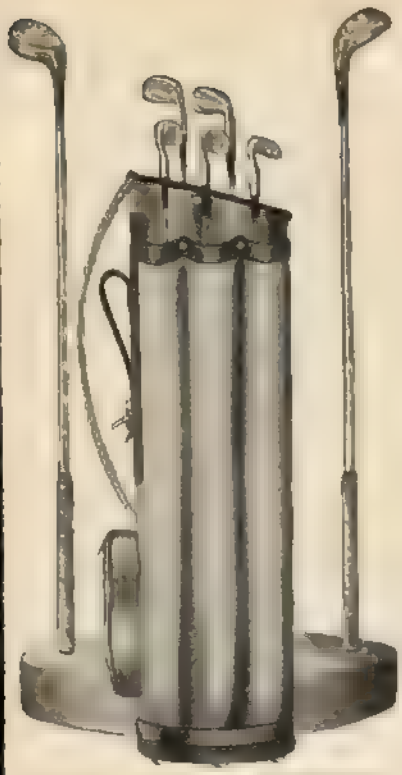
Wilson Soccer Ball. 12 piece pebbled grain cowhide. Double lined. leather laced. Packed each in box

No. 12R23. Each. **5.50**

Wilson Volley Ball. 12 piece construction. Made of white cowhide, canvas lined, leather laced. Packed each in box

No. 12R25. Each..... **7.32**

GOLF Accessories



CHALLENGER CRAFTSMAN 8-Piece Golf Outfit

Matched in registered 8-piece outfit with genuine "Tan-Sheen" com-par-to bag. Full goose-neck offset compact lead iron of special carbon steel with triple chrome plated head. Deep faced walnut finished persimmon woods with red fiber insert and butterfly sole plate. Tan perforated calfskin grips. Chrome plated special shaft. Well finished full and button cap. Ten club comparto bag completely reinforced, waterproof and weatherproof. Each outfit consists of 5 irons (2-o-7-9 Putter), 2 woods (driver and spoon) and comparto bag. Available in men's right or left handed and ladies right handed. Retail 62.50.

No. 11R573. Per set... **41.16**

Stroke Saver Clubs differ from other clubs in that they are made especially [illegible] shafts, square tapering grips and heavy heads, and are perfectly balanced. Chromium plated mild steel heads and chromium plated steel shafts. Calfskin grips and capped with Pyralin. Retail 9.50

No. 11R105. Approach Cleek Each **6.20**

No. 11R104. Putter Each **6.20**

No. 11R103. Chipper. Each **6.20**

Two-Way Putter. Can be used right or left handed. Mild steel with chrome finished head and chrome plated step shaft.

No. 11R101. Each ...**4.70**

Flor-s-ent Plastic Golf Tees. 35 in cellophane bag. 6 dozen bags to carton.

No. 11R31. Doz. bags **2.29**

Wood Golf Tees 1⅝-in. Long. Sturdy shanks. Packed 100 tees to bag.

No. 11R38. Per dozen bags **4.70**

Head Covers for Wood Clubs. Made of top quality glove leather, flannel lined. Come only in plastic cords with adjustable sliding divider and attached for strapping to bag. Set of 3 displays box.

No. 11R36 Set of 3 Per set **3.53**

No. 11R37 Set of 4 Per set **4.65**

Head Covers for Wood Clubs. Made of quality pigtex leather, lined. Connected with leather thong.

No. 11R32. Set of 3. Per set...**2.20**

No. 11R33 Set of 4. Per set...**2.94**

Golf Gloves. 3 finger, open back, no thumb. Degrained imported brown pigskin. Strap at wrist. Men's left hand only. Sizes, small, medium and large.

No. 11R39. Each ... **1.00**

Dozen **10.80**

Sponge Rubber "Kaddy Pad." Golf pad gives cushion made of sponge rubber. Close stitched leather. Is held to golf bag strap securely by pliable pad. Rust-proof snap fasteners for instant adjustment. Individually cellophane wrapped. Packed 1 doz. to carton. Retail 1.00.

No. 11R41. Per dozen ...**6.37**

Golf Ball Retriever. Made of polished aluminum. Collapses to 42", extends to 7'. Adjustable—positive lock nut. Sturdy cast aluminum head. Packed six to a carton. Retail 3.30

No. 11R40. Each..... **1.94**

CADDY CARTS

Caddy Master Deluxe Golf Cart. Built to stand the roughest wear, this cart contains no screws, nuts, or bolts to come loose. Made of tempered ¾" tubing, hammertoid silver finish. Large 10" full ball-bearing wheels with broad flat rubber tread tire for easy rolling. The wheels fold under the platform (see illustration), cart folds into a space 12x17x33". 24" adjustable handle. Weight 12 lbs. Retail 15.00

OPEN

CLOSED

No. 11R525. Each...**9.80**

No. 11R526. Same as above with 11" balloon tire wheels. Retail 17.00 Each **11.15**

The New K-Kart. Collapsible golf bag carrier made of heat treated aluminum castings and tubing for maximum strength with minimum weight. Tarnish proof. 10" ball-bearing wheels assure easy effortless rolling. Special design of the base permits bag to rest flat; 2" off the ground at all times. Because of patented design, hardly any metal touches bag. Unit and bag fit easily into average size club locker. Weight approximately 10 lbs. Retail 27.50.

No. 11R524. Each **16.20**

CHATELAINE
STERLING SILVER

925/1000 Fine

A RICH DESIGN IN STERLING SILVER THAT SATISfies the constant demand for tableware of traditional beauty. Splendid weight and proportion, together with perfection of craftsmanship and bright, sparkling finish. Chatelaine Sterling Silver signifies discernment and good taste.

Illustrated above: a six-piece Place Setting in the lovely CHATELAINE pattern

PLACE SETTINGS

Six-Piece Place Setting. Luncheon size, as shown in the place setting above with details of design and size as shown at left. Tea spoon, knife, fork, butter spreader, cream soup spoon and salad fork.
Retail price $25.00....DEALER PRICE, PER SIX-PIECE PLACE SETTING $12.50

Six-Piece Place Setting. As above with Dinner size knife and fork.
Retail price $27.25 ...DEALER PRICE, PER SIX-PIECE PLACE SETTING $13.63

Five-Piece Place Setting. Luncheon size. Tea spoon, knife, fork, cream soup spoon, and salad fork.
Retail price $21.75.....DEALER PRICE, PER FIVE-PIECE PLACE SETTING $10.88

Five-Piece Place Setting. As above with Dinner size knife and fork.
Retail price $24.00...DEALER PRICE, PER FIVE-PIECE PLACE SETTING $12.00

OPEN STOCK

	RETAIL PER DOZ.	DEALER COST PER. DOZ.		RETAIL PER DOZ.	DEALER COST PER. DOZ.
Tea Spoons (Heavy).....	$39.00	$19.50	Dinner Fork	$81.00	$40.50
Luncheon Fork	63.00	31.50	Dinner Knife	66.00	33.00
Luncheon Knife	57.00	28.50	Cocktail or Oyster Fork	42.00	21.00
Butter Spreader	39.00	19.50	Coffee Spoon	24.00	12.00
Cream Soup Spoon	51.00	25.50	Iced Beverage Spoon.....	56.00	28.00
Salad Fork (Ind.)	51.00	25.50			

SERVING PIECES

	RETAIL EACH	DEALER COST EACH		RETAIL EACH	DEALER COST EACH
Butter Knife	$ 7.00	$3.50	Steak Carving Fork	$ 8.00	$4.00
Cold Meat Fork	10.00	5.00	Steak Carving Knife	8.00	4.00
Gravy Ladle	11.50	5.75	Sugar Spoon	6.00	3.00
Pie Server (H.H.)	8.00	4.00	Table Spoon	8.50	4.25

ALL RETAIL PRICES SHOWN INCLUDE FEDERAL EXCISE TAX

MADE BY

Franklin Silversmiths

Subsidiary of one of America's Oldest Manufacturers of Fine Silverware

CAMSTON Sterling Silver Services—925/1000 Fine

GRACEFUL COLONIAL STYLING

Choice of rich Hand-Chased as illustrated or Plain Colonial with Gadroon Borders

- HEAVY WEIGHT
- BRIGHT FINISH

Insulated handles on Coffee and Tea Servers

HAND CHASED COLONIAL. Sterling Silver 5 Piece Set. (Without Tray) As Illustrated.

396825—Retail $365.00 ..... PER SET $220.00
396826—Coffee Pot. 3½ pint capacity, 11½" high. Retail $127.50. EACH $76.50
396827—Tea Pot. 3 pint capacity, 10½" high. Retail $120.00 ..EACH $72.00
396828—Sugar Bowl. Covered. Height 6¾". Retail $49.50 ..... EACH $29.70
396829—Creamer. Height 6½". Retail $39.85 ..... EACH $23.95
396830—Waste Bowl. Height 4½". Retail $28.85 ..... EACH $17.30
Silver Plated Waiter. Hand applied border. Chased center. Length 24½".
396829—Retail $41.25 ..... EACH $24.75

PLAIN COLONIAL Sterling Silver 5 Piece Set (Without tray—not illustrated.)

396811—Retail $275.00 ..... PER SET $165.00
396812—Coffee Pot. 3½ pint capacity, 11½" high. Retail $100.85..EACH $60.50
396813—Tea Pot. 3 pint capacity, 10½" high. Retail $93.50..... EACH $56.10
396814—Sugar Bowl. Covered, Height 6¾". Retail $33.00..... EACH $19.80
396815—Creamer. Height 6½". Retail $27.50 ..... EACH $16.50
396816—Waste Bowl. Height 4½". Retail $20.15..... EACH $12.10
Silver Plated Waiter. Hand applied border. Chased Center. Length 24½".
396829—Retail $41.25 ..... EACH $24.75

CLASSIC GEORGIAN MOTIF

Available in Plain or Ornate Hand Chasing as illustrated

- HEAVY WEIGHT
- BRIGHT FINISH

Coffee and Tea Pots have Insulated Handles and Cast Feet

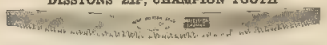
HAND CHASED GEORGIAN. Sterling Silver 5 Piece Set. (Without Tray) As Illustrated

396817—Retail $365.00 ..... PER SET $220.00
396818—Coffee Pot. 2¼ pint capacity, 9¼" high. Retail $127.50 EACH $76.50
396819—Tea Pot. 2 pint capacity, 8¼" high. Retail $120.00 ..... EACH $72.00
396820—Sugar Bowl. Covered. Height 4½". Retail $49.50 ..... EACH $29.70
396821—Creamer. Height 5". Retail $38.50..... EACH $23.85
396822—Waste Bowl. Height 2¾". Retail $28.85 ..... EACH $17.30
Silver-Plated Waiter. Hand applied border. Chased center. Length 26½".
396830—Retail $41.25 ..... EACH $24.75

PLAIN GEORGIAN. Sterling Silver 5 Piece Set (Without tray—not illustrated.)

396831—Retail $275.00 ..... PER SET $165.00
396834—Coffee Pot. 2¼ pint capacity, 9¼" high. Retail $100.85 EACH $60.50
396825 Tea Pot 2 pint capacity. Height 8¼" Retail $93.50 . . .EACH $56.10
396826—Sugar Bowl. Covered. Height 4½" Retail $33.00 ..... EACH $19.80
396827—Creamer. Height 5". Retail $27.50..... EACH $16.50
396828—Waste Bowl. Height 2¾". Retail $20.15 ..... EACH $12.10
Silver-Plated Waiter. Hand applied border. Chased center. Length 24½".
396838—Retail $41.25 ..... EACH $24.75

CROSS CUT SAWS
DISSTONS' ZIP, CHAMPION TOOTH



Crucible steel, thin back. Taper ground, hardener, tempered and set. 14 Ga. on tooth edge, 19 Ga. on back. Without handles.

No. 270—Length 6 ft., 14x19 gauge ..... Each $17.50

ATKINS HEMLOCK KING

Silver steel, taper ground, hardened, tempered and set. Without handles. Width at ends 3¼ in. width at center 5⅛ in. 14x18 gauge.

No. 9—Length, ft.	4½	5	5½	6
Width at center	4⅝	4¾	4¾	5
Each	$12.00	13.20	14.90	17.50

ATKINS LONE STAR, DIAMOND TOOTH

Special steel, thin back. Taper ground, hardened, tempered and set. Without handles. 14x18 gauge.

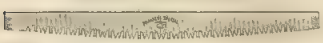
No. 223—Length, feet			5½	6
Each			$11.10	12.10

ATKINS THINBACK, TUTTLE TOOTH

Special steel. Taper ground, hardened, tempered and set. Without handles.

Length, feet		5	5½	6
No. 331 14x18 gauge	Each	$9.90	10.90	11.90
No. 332½—14x20 gauge	Each	11.60	12.70	13.90

FRANKLIN TUTTLE TOOTH



Special steel, hardened, tempered and set. Without handles.

No. 410—Length, feet 14x16 gauge	5	5½	6
Each	$7.40	8.00	8.50
No. 420—14x18 gauge		5½	6
Each		$8.50	9.30

FRANKLIN PERFORATED LANCE TOOTH

Special steel, hardened, tempered and set. Without handles.

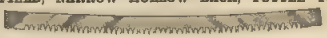
No. 440—Length, feet 14x18 gauge	5	5½	6
Each	$8.50	9.30	10.00

SIMONDS CRESCENT GROUND CROSS CUT

Two cutting teeth to each Raker. Medium wide sway back pattern for fast cutting. Highly tempered to stay sharp longer in frozen timber.

No. 113—Length, feet	5	5½	6
Each	$13.20	15.10	17.50

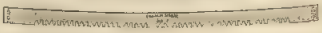
CROSS CUT SAWS
SHEFFIELD, NARROW HOLLOW BACK, TUTTLE TOOTH



Crucible steel, carefully hardened and tempered. Width 3½ in., 14 gauge. Without handles.

No 379—Length, feet	5	5½	6
Each	$5.60	6.00	6.70

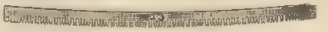
FRANKLIN, NARROW, TUTTLE TOOTH



Special steel, carefully hardened and tempered. Width 3¼ in. Without handles.

No. 77—Length, feet	5	5½	6
Each	$4.80	5.35	5.70

FRANKLIN, NARROW, PERFORATED LANCE TOOTH



Special steel, hardened, tempered and set. Width 3¼ in. Without handles.

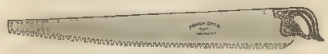
No. 57—Length, feet	5	5½	6
Each	$5.50	6.00	6.50

ONE-MAN CROSS CUT SAWS
SHEFFIELD, TUTTLE TOOTH

Special steel, carefully hardened and tempered. Complete with one-man cross cut saw handle.

No. 390—Length, feet	3	3½	4	4½
Each	$7.10	8.40	9.40	10.70

FRANKLIN SPECIAL, TUTTLE TOOTH



Special steel, ground and tempered, with easy-grip one-man cross cut saw handle and supplementary handle

No 87H Length, feet	2½	3	3½	4	4½
Each	$5.00	5.50	6.40	7.30	7.90
No 87—Without supplementary handle			2½		3
Each			$4.40		4.90

BUSHMAN SAWS

Adjustable

Made in Sweden—Three Patented Features

The Bushman adjustable frame is made of the highest quality Swedish steel, has a tension of 500 lbs. It can be assembled and taken apart without the medium of tools.

No 25-42" Complete with blade ..... Each $5.25

Non Adjustable

No. 36-36" Complete with blade ..... Each $4.34
No. 34x24" Complete with blade ..... Each 3.34

BUSHMAN PATENTED BLADES
One Inch Width

No. 55-42" ..... Each $2.00
No. 53-36" ..... Each 1.80
No. 51 30" ..... Each 1.54
No. 50-24" ..... Each 1.40

SEE THE

"TOY OF MANY CHARACTERS"

at the AMERICAN TOY FAIR
Room 1038—Hotel McALPIN

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TRADEMARK

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AN EDUCATIONAL TOY THAT...

- *Teaches manipulative skill*
- *Teaches creative thinking*
- *Teaches co-ordination*
- *Brings smiles into the sick-room*
- *Helps party guests "loosen-up"*

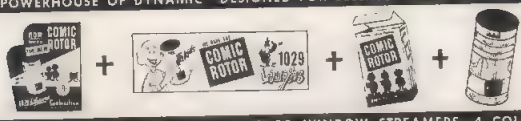
YOU will keep ahead in sales and profits the year 'round with the "Comic Rotor" Promote it now!

only **79** CENTS

FUN-CRAFT CORPORATION

66 HUDSON STREET, HOBOKEN, N. J.

A POWERHOUSE OF DYNAMIC "DESIGNED FOR SELLING" MERCHANDISING AIDS TO ASSIST YOU



A TERRIFIC COUNTER DISPLAY, 4 COLOR WINDOW STREAMERS, 4 COLOR PACKAGE AND TOY

GALLET, GALCO, GUINAND, SECURITY

WORLD RENOWN WATCHES—TIMERS & CHRONOGRAPHS BY GALLET FOR PRECISION TIMING

GALLET and GALCO TIMERS

Present These Pre-tested Features:

- 7-JEWELED LEVER MOVEMENTS (None Stronger Made)
- CHROME FINISH, HINGED NICKEL CASES
- NIVAROX HAIR SPRINGS AND GLACIDUR METAL BALANCES TO MINIMIZE CONTRACTION AND EXPANSION

Gallet and Galco Timers are perfected by the world's foremost chronograph experts; Security Timers by the same craftsmen.

Gallet Main Timer. An excellent timer for industrial and general sports. Long hand registers fifths of seconds and small hand minutes up to 30. Start, stop and fly back from crown; lever movement hinged nickel case.

No. 12W1.	GALLET—7 Jewels	16.56
No. 12W2.	GALCO—7 Jewels	14.33
No. 12W3.	SECURITY—1 Jewel	8.59
No. 12W4.	SECURITY—Yacht Dial	8.59

Gallet Tenth-Second Football and Basketball Timer. A combination of the regular start, stop and fly back and Football timer. A pressure on the crown will consecutively start, stop and again start the timer. A pressure on the side pin will bring both hands back to zero. 7-jeweled, lever movement.

No. 12W7.	GALLET	19.11
No. 12W8.	GALCO—7 Jewels	16.24
No. 12W9.	SECURITY—1 Jewel	10.19
No. 12W10.	GALLET—2¼" Diameter	21.65

GALLET SPLIT SECOND TIMER

Proficient in measuring related activities. Fifth-second, 30-minute register; start, stop and fly back from crown, side push for the split-second hand; lever movement, hinged nickel case.

12W38.	GALLET—7 Jewels	35.67
12W39.	GALCO—7 Jewels	30.55

GALLET 10-SECOND TRACK TIMER

Actual Size Illustrated

Mostly used for short sprints. Each second divided into ten parts. Registers up to 5 minutes. 7-jewel, lever movement.

No. 12W36.	Nickel Case	22.61

Same as above except that it makes one full revolution of the sweep hand in one second which indicates 1/100th of a second when stopped on margins between numerals and numerals indicate tenths of seconds. Small register hand registers up to 30 seconds.

No. 12W37.	Each	29.30

C. L. GUINAND'S SPLIT TIMER

Fifth-second, 30 minute register, start, stop and fly back from crown, side push for the split-second hand, fine, jeweled, nickel, lever movement.

12W40.	Nickel Case, 7 Jewels	41.73
12W41.	Nickel Case, 15 Jewels, Breguet Hair Spring	48.40

Gallet 1/5-Second Football, Basketball and Broadcasting Timer. A combination of the regular start, stop and fly back and Football timer. A pressure on the crown will consecutively start, stop and again start the timer. A pressure on the side pin will bring both hands back to zero. 7-jeweled, lever movement.

No. 12W11.	GALLET	18.15
No. 12W12.	GALCO—7 Jewels	15.28
No. 12W13.	SECURITY 1 Jewel	9.55

Gallet Decimal Timer. This dependable instrument divides the minute into 100 parts. Side slide for time out. Small hand registers revolution of long hand. Fly back from crown. Nickel case, lever movement, 7 jewels.

No. 12W5.	GALLET	18.15
No. 12W6	GALCO—7 Jewels	15.28

GALLET CHRONOGRAPH; MINUTE REGISTER

Fifth-second; start, stop and fly back from crown; jeweled, lever movement.

12W42.	Nickel Case, 17 Jewels	36.65
12W43.	As above with side slide for time out	37.91

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

GENERAL ELECTRIC CLOCKS

6 OR MORE PRICE APPLIES TO ORDERS FOR 6 OF ONE MODEL OR ASSORTED.

Navigator. Nautical design with brightly polished spokes on a Mahogany plastic ship's wheel. Dial has anchor and rope design. Overall dimensions 6⅝ x 7⅝ x 3¼ inches. Retail 7.95 plus tax

No. 62W571 Each 5.07
6 or more. Each. 4.67

Designer. A new modern design in an occasional clock. Mahogany wood case with embossed ivory dial and raised gold numerals. Gold colored hour and minute hands with matching sweep second hand. Self starting movement. Overall dimensions 3⅞ x 5⅛ x 2¾ inches. Retail 9.95 plus tax.

No. 62W815. Each 6.34
6 or more Each 5.85

Voyageur. Solid brown plastic case. Gold color Bezel. Chocolate brown numerals and hands on ivory dial. Overall dimensions 5⅜ x 5⅞ x 2 inches. Retail 11.95 plus tax.

No. 62W786. Each 7.61
6 or more. Each 7.03

Geneva. Rich mahogany case. Gold metal trim. Overall dimensions. 4⅝ x 7¼ x 2¼ inches. Retail 12.95 plus tax.

No. 62W724. Each..... 8.25
6 or more Each 7.61

Candlelight. Luxuriously styled in modern design pigskin covered case. Modern dial. Overall dimensions: 5½x5½x2½ inches. Retail 19.50 plus tax.

No. 62W685.
Specially priced. Each..... 9.50

Pristine. Beautiful mahogany tambour occasional clock. Gold metal trim. Overall dimensions 5½x12⅝ x3⅛ inches. Retail 14.95 plus tax

No. 62W674. Each... 9.53
6 or more. Each... 8.79

KITCHEN MODELS

Pantry. Molded plastic case in white or yellow Mahogany colored hands and numerals with red sweep second hand. Overall dimensions. 6¼x7x2⅛ inches. Retail 4.50 plus tax

No. 62W748/1. White
No. 62W748/2. Yellow
No. 62W748 3. Red
Each 3.00
6 or more. Each. 2.78

Epicure. New thin model case of molded plastic in green, white or red. Overall dimensions 7¼x7¼x2 inches. Retail 4.95 plus tax.

No. 62W722/1. Green.
No. 63W722/3. Red.
No. 62W722/4. White.
Each..... 3.30
6 or more Each..... 3.06

Gourmet. New kitchen clock with durable plastic case in red, white or yellow. Black hour and minute hands and sweep second hand with white dial. Self-starting movement. Overall dimensions: diameter 7⅛, depth 2⅛ inches. Retail 6.95, plus tax

No. 62W816/1. White.
No. 62W816/2. Red
No. 62W816/3. Yellow.
Each 4.43
6 or more. Each..... 4.09

Hostess. A decorative addition to any kitchen. Glistening ivory or red plastic case. Overall dimensions 7⅛ x7½x2⅛ inches. Retail 7.95 plus tax

No. 62W281/3. Ivory
No. 62W281/4. Red.
Each 5.07
6 or more Each... 4.67

CLOCK TIMERS

Little Chef. White plastic case Times any household task up to 30 minutes. Including clock features. Overall dimensions: 3¾x 4x2⅛ inches. Retail 5.95 plus tax

No. 62W727.
Specially priced. Each.... 3.25

Chef. An attractive, accurate 60 minute timer and kitchen clock. White plastic case. Overall dimensions: 5⅞x5⅞x2⅛ inches. Retail 7.95 plus tax.

No. 62W687/1.
Specially priced. Each.....4.50

COMMERCIAL MODELS

Office or Store Wall Clock.

Sturdy brown plastic case. Has all the famous GE clock features. Available in 8, 12 or 15 inch dials.

No. 62W757. 8 inch. Retail 9.95 plus tax.
Each..... 5.85

No. 62W644. 12 inch. Retail 12.95 plus tax.
Each..... 7.61

No. 62W645. 15 inch. Retail 17.95 plus tax.
Each..... 10.55

★ MOVIES ★

STAND-OUTS

Harvey — (*February*)
Born Yesterday – (*January*)
Mad Wednesday – (*December*)
All About Eve – (*November*)
Glass Menagerie – (*November*)
The Dancing Years — (*October*)

Teresa A wonderful little story of young love with two new, appealing, and very capable youngsters, *John Ericson* and a tiny Italian girl, *Pier Angeli*. About a sensitive American soldier who brings home his sweet Italian war-bride to his hostile and over-protective mother. How he breaks away to a strong, new life of his own is told with restraint, tenderness, and skill. Very fine. (M-G-M)

The Steel Helmet Watch for this "sleeper"—it will be a hit. About our present war in Korea—not a documentary, not a news-reel. No bravado, no fake "types", in a film as up-to-date as today's newspaper. Brilliant direction, exceptionally photographed. *Gene Evans* in a really great performance, with *Robt. Hutton*. Topic (Lippert)

I'd Climb the Highest Mountain A warming account of a minister and his gently-born wife who struggle with the parish crises in a small Georgia town, surmount them, and earn the reward of the community's love and gratitude as they prepare to move on to a new assignment. *Susan Hayward, Wm. Lundigan*. Commendable. (20th C-Fox)

Bedtime for Bonzo Kids in particular, but adults who like animals, as well, will enjoy this light comedy about a chimpanzee used to prove a psychologist's point as professor, *Ronald Reagan*. The chimp is captivating and charming, and the players meet the farce with ease. With *Diana Lynn*. Good fun. (Universal)

Tomahawk A story of the wars with the Sioux Indians as the whites drove across their homelands. Jam full of terror fighting of all kinds, with only minor attempts at comedy and romance. *Van Heflin, Alex Nicol, Yvonne de Carlo, Jack Oakie*. Violent action plus top photography (Universal)

Revenue Agent Interesting semi-documentary "B" film. How Internal Revenue agents track down criminal tax evaders. *Douglas Kennedy, Jean Willes*. Attention-holding. (Columbia)

M An excellent American re-make of the old German chiller which boosted Peter Lorre to stardom. *David Wayne* absorbing as a psychopathic killer who is led on remorselessly to strangle a young girl. *Howard da Silva, Luther Adler, Jaquine Perreau*. (Columbia)

Cry Danger *Dick Powell* in one of those hard boiled roles he knocks off with such skill. As a guy who was framed and railroaded to prison by a conniving gangster, when released he sets about running down the complicated plotting which jailed him. With *Rhonda Fleming*. Suspense and excitement. (RKO)

Mating Season *Gene Tierney, John Lund*, in a robust comedy of the kind that tickles everybody. Good, clean fun, with *Thelma Ritter* making a smashing success of her comic role as a mother mistaken for a maid by her son's new wife. With *Miriam Hopkins*. Smooth and agreeable comedy. (Paramount)

The Great Missouri Raid That undying saga of American folklore, the story of Jesse James and brother Frank, in color. This tale of the historic bad men (of which we never seem to tire) seems to stick closely to such facts as are known. But we may wonder if the boys were such innocents as described here. Maybe so, maybe so. *Wendell Corey, Macdonald Carey, Ward Bond, Ellen Drew*. Well made. (Paramount)

Storm Warning An honest and attention holding exposé of the Ku Klux Klan in our time. In a personalized story—entirely about white people—we see the shocking effects of ignorant, brutal mob violence. *Ginger Rogers, Steve Cochran, Doris Day, Ronald Reagan*. Powerful (Warners)

Operation Pacific Lots of action plus romance in this account of the submarine's part in World War II in the Pacific Popular *John Wayne* as a pig-boat officer, *Patricia Neal* as his wife. Very fine marine photography. (Warners)

—*Charles F. Stevens*

HERE'S HOW TO ELIMINATE

"Garden Drudgery"

AND LIVE BETTER

Save time! Save labor! Get results!

Why let "Garden Drudgery" rob you of the pleasure or profit of running your garden or farm? Why risk your health with overwork? Now you can turn all the back-breaking labor over to Planet Jr.

Planet Jr. labor-saving tools, such as shown below, do the heavy work . . . seeding, weeding, mowing, cultivating, plowing, and save you hundreds of hours besides. Planet Jr. field and garden tools are the right answer to better gardening and better living. Prices may never be so low again, so send in the coupon today for complete information. Start now to save time, save labor, and get results.

Planet Jr. also specializes in Multi-row Drills, Fertilizers and Cultivators.

MAKE FUN OF WORK
with a
Planet Jr.
GARDEN TRACTOR
You've never dreamed gardening could be so easy . . . so actually fun . . . with a Planet Jr. Garden Tractor
A child can operate it but it does a man sized job of plowing, discing, cultivating, seeding, furrowing, hilling, mowing, earth shaping, lawn hauling, field mowing and
You will think of dozens of other uses for it about the home or farm. Here are just a few: Spray, Wire Wood Cutting, Water Pumping, and Tool Sharpening. Send the coupon for full details. Do it today.

Planet Jr. FINEST IN THE FIELD

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S. L. ALLEN & CO., Inc.
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Gentlemen:
I'm finished with "GARDEN DRUDGERY"! Send me full details how Planet Jr. garden tools will end it! I have checked below the products in which I am interested.

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☐ Tractors ☐ Garden Tools
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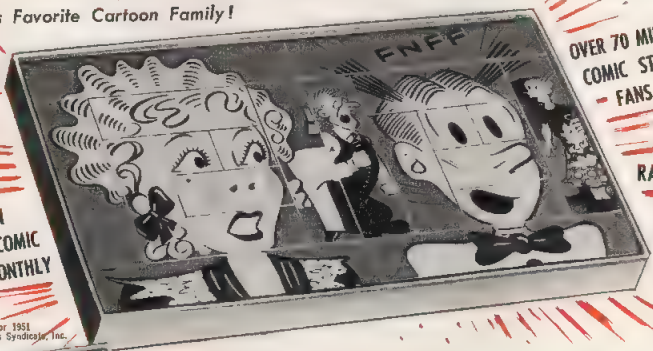
GASTON PRESENTS

Blondie and Dagwood

Now on . . . BLONDIE and DAGWOOD INTERCHANGEABLE BLOCKS!

America's Favorite Cartoon Family!



MOVIES

A MILLION BLONDIE COMIC BOOKS MONTHLY

OVER 70 MILLION COMIC STRIP FANS

RADIO

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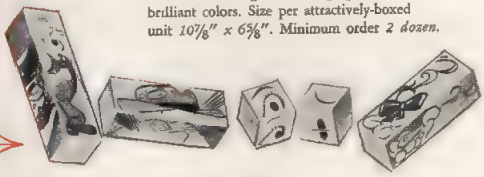
LOVABLE! LAUGHABLE!

NOW CHANGEABLE!

Changeable Charlie! Bozo! Woody!
Now, Blondie and Dagwood at their ever popular, heart-warming best on Gaston interchangeable blocks!
Mr. Dithers, Woodley, Daisey, the pups and entire Bumstead family all add to the fun.
Put Blondie's head on Dagwood's shoulders . . .
Change their expressions . . . Change their clothes . . .
Simply by rotating blocks! All the features of the already successful Gaston line plus sales potential provided only by America's favorite cartoon family!

Blondie and Dagwood lithographed in *four* brilliant colors. Size per attractively-boxed unit *10⅞" x 6⅝"*. Minimum order *2 dozen.*



Change Picture By Rotating Blocks!

Over a Trillion Combinations Possible!

GASTON MANUFACTURING CO., 234 WEST SECOND STREET, CINCINNATI 2, OHIO

AGAIN, the public will be looking for EDUCATIONAL TOYS and for USEFUL TOYS. Our catalog has them!

Woodburning Sets, Tool Sets, Sand Painting Sets and other Constructive, Educational and Useful Toys. Also new Play Toys and new Kiddie Toys. Comprehensive catalog now ready

Send for

TOY BUYERS' CATALOG

See pages of proven good sellers for all age groups and in every price range. Write or phone for your copy today.

AMERICAN TOY & FURNITURE CO., INC.

6130 N. Clark St. • Chicago 26, Ill. • Tel: AMbassador 2-1200

COWBOY CHIME

Branded "*TOPS*" at the Toy Fair

Meets the growing demand for a colorful Western Pony! "Young Riders of the Range" will thrill to galloping away on Cowboy Chime, No. 700. One of 5 exciting new designs that have joined Fisher-Price Toys. Strong wood head, stick, yoke. Cowboys and Indians decorate musical roller chime. 33" long. Suggested retail, $2.19*.

SOUND! ACTION! COLOR!

LOOKY CHUG-CHUG No. 161. A jolly, lively locomotive! Actually chugs as eyes roll motion-rotate. Bell is ring. 14 long. Suggested retail, $2.50*

MUSICAL SWEEPER, No. 100 3 to 7 yr. olds play grownup" to merry tune of "Whistle While You Work!" Actually sweeps, has dust compartment. 8" wide, 18½" push handle. Suggested retail $2.95*

QUACKY FAMILY, No. 799 Mama's ... need ed voice quacks gaily as she waddles along follo wed by her duckstrings. Suggested retail, $1.35*

*Slightly higher in West

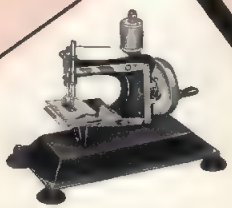
Write for New 1951 Catalog

FISHER-PRICE *Toys* INC.

EAST AURORA, ERIE COUNTY, N. Y.

NEW YORK OFFICE AND DISPLAY: SUITE 417, 200 FIFTH AVENUE BLDG.

THE TOYS MOST WANTED BY AMERICA'S MILLIONS OF DOLL LOVERS!



GATEWAY
"Junior"

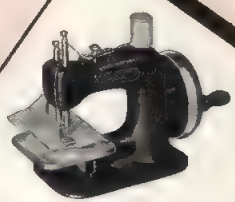
TOY SEWING MACHINE

Made to really sew. Priced to really sell. Sturdy all metal, finished in polished nickel and non-chip enamel. A precision machine that can be used for years. Packed in eye-catching package

12 to carton.

MATS FREE

ROOM 707
HOTEL NEW YORKER



Beautiful
DE LUXE
MODEL

STITCH MISTRESS TOY SEWING MACHINE

FOR THOSE WHO WANT THE BEST.

Cast aluminum body encloses working parts. Looks just like Mother's machine. Beautiful non-chip enamel finish contrasting with chrome trim.

Individually boxed

12 to carton.

ROOM 707
HOTEL NEW YORKER

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HOTEL NEW YORKER

ROOM
707

All Aluminum Frame

VINYL PLASTIC FABRIC

Folds in space 2½ in. wide

FOLDING "DOLLY" DOLL BATH AND DRESSING TABLE

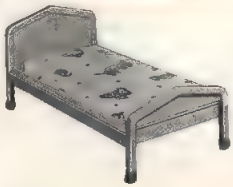
Light in weight. Sturdy construction. Has 5 convenient pockets and easily operated water shut-off.

Colors: Pastel blue and pink.

Size: 22½" long, 13" wide,, 23½" high when in use.

6 to carton.

ROOM 707
HOTEL NEW YORKER



"DOLLY" DOLL BED

COMPLETELY FOLDS— NO SCREWS—NO BOLTS

All Metal, New Modern design. Metal springs welded to frame. Rubber feet. Includes Water-proof plastic mattress. Individually boxed

DBM33—19¼"x10¾"x8¾".

12 to a carton.

EVERY DOLLY NEEDS A BED

ROOM 707
HOTEL NEW YORKER

C. L. BRADFORD and ASSOCIATES

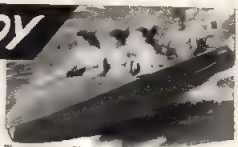
1600 Merchandise Mart, Chicago 54, Illinois

Stable, Sturdy... and SPEEDY

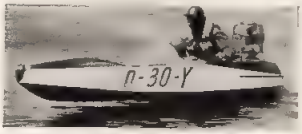
Yes, now you can own a pleasure boat with the strength and stamina . . . and *speed* . . . of a marathon racer! Now the whole family can enjoy outings in perfect comfort and safety.

SPEEDLINERS . . . precision built throughout . . . are outstanding in appearance, seaworthiness and performance. Their sound construction of finest materials means long service, low upkeep. 17 sleek models to choose from . . one for every boating need!

Famed far and wide for their many victories and records, the new SPEEDLINER models are improved for 1951. *Write today for complete information, literature, prices, performance data.*



Five passenger, 14 foot "TROPHY" Plenty of room for all for fun!



Another win for Bob Meyer brightest star in Stock Utilities and his SPEEDLINER! Champ of Class E, National, Class D, Hudson River, Overall, Class D, Winnebagoland.

Champions for Pleasure . . . Much Faster per Horsepower!

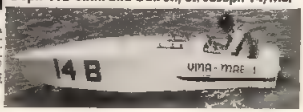
Enjoy yourself in SPEEDLINERS, built to APBA Stock Utility specifications. Compare this mighty 1950 record of winning performances: First, classes E, F and JV in the Nationals; First, class D Colorado River Marathon, Needles, Calif.; First, class D Hudson River Marathon; First, overall and class D Winnebagoland Marathon; First, class A Petuxent River Marathon; Grand prize and class B, Greenville-Vicksburg Mississippi River Marathon; plus five world records in 1949!

SPEEDLINER
Fishing Boats and Runabouts

Hundreds of trophies . . and always a SPEEDLINER! Bob Meyer has been a leading competitor for 20 years! He counts on more speed per horsepower from his SPEEDLINER.

Inboard runabout Vima Mae III 20 firsts, one second in 22 races World record holder class B inboards one mile (60.61 mph) and five mile (55.18 mph). Another SPEEDLINER champ!

GENERAL MARINE COMPANY
Dept. 413 Sixth and Oak St., St. Joseph 14, Mo.



tains everything in the weatherman's box of tricks, from calms to gales, all in the same race.

Blanchard Thirty, designed by the well-known naval architect Wm. Garden, and built by the Blanchard Boat Company, Seattle is a growing and popular class. In common with other builders anxious to reduce the cost of vessels to the buyer, yet refusing to lower their high standards of building, economics have been effected along the lines of plain finish. Varnished trim, and inside joinery are the lines of plain finish. Varnished trim, and inside joinery are items which add up the cost by consuming many man-hours. If these can be simplified or eliminated, the boat can be sold at a comparatively low figure. There is nothing to prevent the skillful owner from elaborating the inside building, lockers, drawers, etc. and equalling the appearance and comfort of many high priced jobs.

The smaller 24-foot Blanchard Knockabout is immensely popular, the number registered running into three figures. Two of these little craft made the rugged trip to Alaska and back this year.

Another popular class is the Evergreen. Chambers of Commerce in the Northwest refer to their country as the "Evergreen Playground." What could be more appropriate than to name a class for that locale? The Evergreens were designed by Phil Rhodes, and are 36 feet by 24 feet by 7 feet 4 inches by 5 feet. They are a somewhat larger edition of the well known Rhodes 33. One novel feature, seldom found in so large a boat, is an outboard well. They are a growing class in the Puget Sound area.

As in Eastern waters, nearly every club has its own Dinghy class, besides the international and national classes. In one Southern California harbor, two clubs have no less than seven local one designs. Club members can only sail against fellow club members in their own class. In the writer's opinion there are far too many of these orphans. The time and money spent in building local types would be better spent on classes giving wider competition, but in every club there is an expert who has found the perfect dink, and whose enthusiasm can infect a few others who will build to the same design.

Sometimes, it is true, the design hits the jackpot, and a small local class becomes national. Who can say why one class dies, and another builds up?

As the dinghy classes are so numerous, it is not intended to include them in this article, with one notable exception. This is so unusual as to be noteworthy. In 1937, some of the Douglas Aircraft engineers got together. All wished to own a boat, as the main plant is located at Santa Monica, on the Pacific, not far from Los Angeles. Of course 33 engineers had 33 different ideas as to the kind of boat that should be built! The sailing was all open Pacific, there was an exposed harbor, and boats had to be small enough to be moved by trailer. One of the engineers, Stew Trumbull, a sailor of vast experience in all kinds of racing craft, while on a visit to the East, visited the Massachusetts Institute of Technology, and sailed one of the M. I. T. dinghies on the Charles river. Here was the perfect craft! He obtained drawings from George Owen, the designer, and, with a few minor changes, the design was adopted.

Being mass production engineers, they spent 4000 man hours on jigs and templates, before a single boat was built. From the word Go, they really went to town! The design called for lapstrake construction, the most difficult of all for amateur builders, but thanks to the lofting experience in the bunch, patterns were made which made every plank fit exactly. As the boats were planked, and came off the three jigs, lots were drawn from a hat and the fortunate owner finished up the hull he had drawn. The number of Deltas, as the one-design is called, now reaches over the sixties. They race in the open ocean off Santa Monica, and are trailered to nearby and distant regattas. They are 12 feet 6 inches by 5 feet beam, and carry 71 square feet of sail. A jib is part of the sail plan, but can seldom be carried.

☆ ☆ ☆

CHILLED VARNISH

Marine spar varnish especially prepared for chilled application is manufactured by H. A. Calahan of Rve, N. Y.

A relatively new product, H. A Calahan's Chilled Varnish has proven satisfactory under varied conditions in different parts of the country where the use of some types of spar varnish might be unsuccessful.

The varnish is applied at temperatures not less than 10° to 20° colder than the surface it goes on. The can is stuck in a bucket of ice cubes to bring the temperature down. It flows on with imperceptible brush drag, dries quickly, can be used under normally adverse temperature and humidity conditions, and is long-lasting, successfully withstanding heat, sunlight, acid fumes and other hazards of brightwork.

THE QUALITY LINE GENSCO MADE OF SWEDISH STEEL

GENSCO TOOL DIVISION

GENERAL STEEL WAREHOUSE CO., INC.

1802 NORTH KOSTNER AVENUE • CHICAGO 39, ILLINOIS

Mention Hardware Age When Writing

Latch on to BUCK'N BRONC

FOR SALES AND RESALES!

America's young cow-pokes AND THEIR PARENTS order and reorder the Buck'n Bronc line The children want it because it's complete and authentic . . . the parents, because there's a price range to meet every budget.

The craftsmanship and materials used are all of the highest quality possible . . . and the designing is real western . . . created in the west.

NOW, is the time . . . stores everywhere are latching on the Buck'n Bronc to keep their sales soaring.

GEO. SCHMIDT MFG.

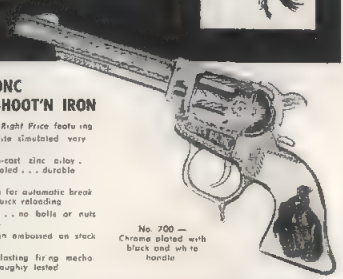
716 EAST 14TH STREET LOS ANGELES, CALIFORNIA

100 Lbs. or over Freight Prepaid

BUCK'N BRONC SHOOT'N IRON

Deluxe gun at the *Right Price* featuring

- Black and white simulated ivory handles
- Made of die-cast zinc alloy . . . accurately tooled . . . durable rustproof
- Spring release for automatic breaking . . . for quick reloading
- Extra sturdy . . . no bolts or nuts to work loose
- Western design embossed on stock and barrel
- Positive long lasting firing mechanism . . . thoroughly tested



No. 700 — Chrome plated with black and white handle

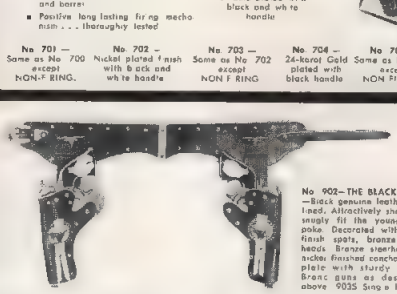
No 701 — Same as No 700 except NON-F RING.

No. 702 — Nickel plated finish with black and white handle

No 703 — Same as No 702 except NON F RING

No 704 — 24-karat Gold plated with black handle

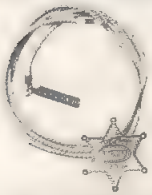
No 705 — Same as No 704 except NON FIR NG



No 902—THE BLACK PACER —Black genuine leather, felt lined. Attractively shaped to snugly fit the young cowpoke. Decorated with silver finish spots, bronze steer heads. Bronze steerhead on nickel finished concho. Complete with sturdy Buck'n Bronc guns as described above 9035 Single Holster

No. 904 — THE BLACK BEAUTY — Genuine black leather, white felt lining. Attractively decorated with jewels and silver finish spots. Bronze steerhead on nickel plated conchos. Silver finished die-cast buckle. Complete with guns. 9035 Single Holster

No 900—THE BLACK RIDER — Black genuine leather accented with white. Bronze steerhead on nickel plated concho. Silver finish spots. 9015 Single Holster



No 400 — WHITE TRICK ROPE — 8 feet long. Wooden handle with special swivel joint to make twirling easy for even the smallest cowboy

No. 800 — Two tone silver and bronze finish with strong clasp. Authentic replica version of the real thing — individually carded

No. 300 — Chrome plated with bronze trim and bronze steerhead on chrome plated concho. Embossed genuine leather straps.

No 3015 — Nickel plated with bronze steerhead on nickel plated concho. Genuine leather straps

No. 302G — 24-karat Gold plate with satin silver finish trim with satin silver finished steerhead on 24 karat Gold plated concho. Embossed genuine leather strap

Latch on to BUCK'N BRONC

FOR SALES AND RESALES!

America's young cow-pokes AND THEIR PARENTS order and reorder the Buck'n Bronc line. The children want it because it's complete and authentic . . . the parents, because there's a price range to meet every budget.

The craftsmanship and materials used are all of the highest quality possible . . . and the designing is real western . . . created in the west.

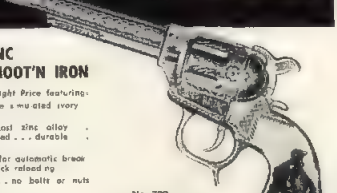
NOW, is the time . . . stores everywhere are latching on the Buck'n Bronc to keep their sales soaring.

GEO. SCHMIDT MFG.

716 EAST 14TH STREET LOS ANGELES CALIFORNIA

100 Lbs. or over Freight Prepaid

BUCK'N BRONC SHOOT'N IRON



Deluxe gun at the Right Price featuring:

- Black and white simulated ivory handles.
- Made of die-cast zinc alloy . . . accurately scaled . . . durable . . . rustproof
- Spring release for automatic breaking . . . for quick reloading
- Extra sturdy . . . no bolts or nuts to work loose.
- Western design embossed on stock and barrel.
- Positive long-lasting firing mechanism . . . thoroughly tested.

No 700 — Chrome plated with black and white handle.

No 701 — Same as No 700 except NON-FIRING.

No. 702 — Nickel plated finish with black and white handle.

No. 703 — Same as No 702 except NON-FIRING.

No. 704 — 24 karat Gold plated with black handle.

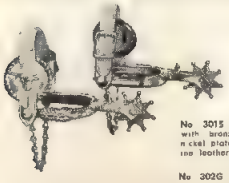
No. 705 — Same as No 704 except NON-FIRING

No. 902—THE BLACK PACER Black genuine leather, felt lined Attractively shaped to snugly fit the young cowpoke Decorated with silver finish spots, bronze steerheads. Bronze steerhead on nickel finished concho Complete with sturdy Buck'n Bronc guns as described above 903S Single Holster

No. 400 — WHITE TRICK ROPE—8 feet long Wooden handle with special swivel joint to make twirling easy for even the smallest cowboy

No 800 — Two-tone silver and bronze finish with strong clasp Authentic replica version of the real thing — nicely corded

No 904 — THE BLACK BEAUTY — Genuine black leather, white felt lining Attractively decorated with jewels and silver finish spots Bronze steerhead on nickle plated conchos Silver finished die cast buckle Complete with guns 905S Single Holster



No. 300 — Chrome plated with bronze trim and bronze steerhead on chrome plated concha. Embossed genuine leather straps.

No 301S - Nickel plated with bronze steerhead on nickel plated concha. Genuine leather straps.

No 302G — 24 karat Gold plate with satin silver finish trim with satin silver finished steerhead on 24-karat Gold plated concha. Embossed genuine leather strap

No 900—THE BLACK RIDER — Black genuine leather accented with white. Bronze steerhead on nickel plated concha Silver finish spots 901S Single Holster

REMEMBER GERBER'S "GURGLING GERTIE" and "GURGLE GUS"...

NOW... HERE'S THEIR PLAYMATE!

a RABBIT THAT REALLY MULTIPLIES... SALES!

Gerber's GURGLING BUNNY

98¢

- Made of Soft White
- Body Colors Will NOT
- DUNK HEAD IN
- HE TALKS LIKE A RABBIT

CAT # B 33
STD PKG. 3 DOZ
WT APPROX 18 LBS

DUNK HEAD IN WATER AND SQUEEZE... HE TALKS BUNNY TALK

Here's a magnificent companion item to Gerber's Talking Ducks! It's the FIRST TALKING RABBIT with the voice IN THE MOUTH! Yes... Gurgling Bunny has everything... eye-appeal and BUY-appeal! He's big... 6 x 10 inches. He's gorgeous... white and pink and blue and beautifully sculptured. He's a PROFIT ITEM... for quick BIG VOLUME. Order today... the perfect item for SPRING AND EASTER and all year.

Gerber TOYS... ST. LOUIS, U. S. A.
SPRUCE AT EIGHTH
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200 Fifth Avenue, New York, N. Y.

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THE TALKING DUCKS

Gurgling Gertie in Soft, Beautifully Colored Gerber White Plastic. Suggested Retail... 98¢

Gurgle Gus, Gertie's Little Sidekick in smaller size... otherwise identical. Suggested Retail.... 79¢

New $1.00 GAMES that SELL EVERY DAY!

Exact miniatures of regulation size games . . . identical in every detail . . . have the very same play features that have made these games so popular.

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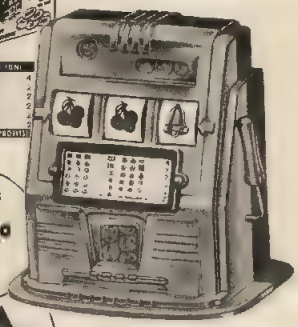


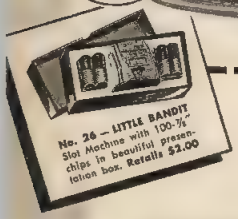
Retails $1.00

ACTUAL SIZE

LITTLE BANDIT
Trade Mark
SLOT MACHINE

GOLD PLATED

No. 25—Loaded with thrills and excitement! Operates just like a regulation size machine. Pull down handle at side . . . wheels spin . . . Combination shows up in full colors. Award chart shows winners. Brilliant Gold plated Plastic. Size 2⅝" x 2" x 2¾". Individually packaged . . . 12 to colorful self-merchandiser. ***Retails $1.00***



No. 26 — LITTLE BANDIT Slot Machine with 100-⅞" chips in beautiful presentation box. **Retails $2.00**

FREE! COLORFUL COUNTER CARDS

~~Reg. $2.00~~

NOW $1.00

PLAYERS CHOICE

Play Any of these Games!

DICE • WHEELETTE • PUT and TAKE
POKER • CHUCK-A-LUCK • MODERN ROULETTE

No. 21—Any number of people may play. Switches from one game to another in a split second. Black and Ivory durable Plastic. 5 dice, 2 balls, released by switch. Size 4 inches. Slips into pocket or purse. With instructions, layout. Individually boxed. ***Retails 1.00***

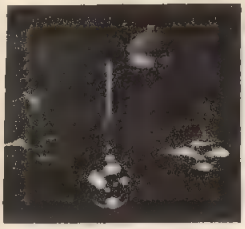
¾ ACTUAL SIZE

Order From This Ad Or Send For Catalog G

E. S. LOWE COMPANY, Inc.

SHOWROOM: 200 Fifth Av., New York 10, N. Y. Room 542
GENERAL OFFICES & FACTORY: 27 W. 20 St., N. Y. 11, N. Y.

GERMAN IMPORTED ORNAMENTS



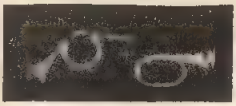
No. 9000
Novelty Assortment, 1 doz. to box, packed: 36 dozen to shipping carton, assorted to carton as follows:

4 doz. House	4 doz. Twisted Bell
4 doz. Santa Claus	4 doz. Mandolin
4 dz. Frosted grape	4 dz. Santa Claus face
4 doz. Automobile	4 doz. Mushroom
4 doz. Birds	

Cs. $27.50

No. 6100/1B
Novelty Assortment, Balloons and Ships, each item covered with tinsel wire decorations, assorted styles and colors, packed: 4 gross to case.

Doz. $2.25



No. 164/6/7
Glass Trumpets & Horns, with voice, actually blows, assorted styles, pastel colors, with frosted flower design and fancy decorations, silver finish, average size about 4", packed: 1 doz. to box, 24 dozen to shipping carton.

Doz. $2.00

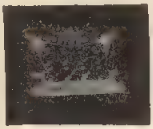
No. 295
Glass Novelty Standing Lamps, assorted styles, pastel colors, fancy decorated, average size 3", packed: indiv. 1 doz. in box, 2 gross to shipping carton.

Doz. $.

No. 7051
Tree Tops, assorted styles, colored base, painted and frosted with triple colored reflectors. silver spears and also fluted colored spears, size 11", ½ doz. assorted to box, packed: 6 dozen to shipping carton.

Doz. $4.50

JAPANESE IMPORT ORNAMENTS



No. 8000
25 mm (1 inch) round, miniature ornament, 12 assorted pastel colors to cellophane window display box, packed: 10 doz. boxes to shipping carton.

Gross $2.25 Cs. $20.00

No. 8005
45 mm (1-4/5 inch) ro[illegible], 12 assorted pastel colors to cellophane window display box, packed: 10 dozen boxes to shipping carton.

Gross $4.25 Cs. $12.50 10 Gross Lots $4.00 Gross

No. 5106
Miniature Decorated Christmas Trees in wooden pots, 11" overall, 10 silver leaves, 10 ornaments, assorted colors, packed 3 doz. to shipping carton.

Doz. $ 6.00

No. 5108
Miniature decorated Christmas trees in wooden pots, 15-½" overall, 15 silver leaves, 15 ornaments, assorted colors, packed: 2 doz. to shipping carton.

Doz. $10.80

No. 3000
Christmas Cluster decoration, suitable for table and mantelpiece display, 16 ball tree shape with center rod and top, size of ornaments 2" to 2-5/8", overall size 16-½", each set in fancy display box, packed: 1 dz. boxes to ship. carton.

Doz. $20.00

No. 2250
Ornament, round, size 2/7/8", deluxe decorations; including screen designs, snow caps and hammered tops, 1 doz. to box, packed: 1 gross to shipping carton.

Doz. $1.40 Gross $16.00

No. 1900
Ornament, round, size 3¼", deluxe decorations; including screen designs, snowcaps and hammered lacquered tops, 1 doz. to box, packed: 1 gross to shipping carton.

Doz. $2.00 Gross $23.00

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SPECIALLY PRICED!

A. C. *GILBERT* "POLAR CUB" FANS WHILE OUR STOCK LASTS

Induction-Type Motors — Operate on 110-120 Volts, A.C., 60 Cycles only. (Non-Radio Interfering)

Polar Cub 8" Oscillating Fan (Model A-321). New Improved die-cast base. Steady, quiet worm drive oscillator. Ocean grey finish, electrically baked. Four "Wind-duct" blades — extremely quiet, big air output. Blade guard strong, welded triple ring — bright finish. Complete with off-on switch, cord and plug. Draws about 25 watts. Size 10¼" high, 9" wide. Shipping weight about 4 lbs.

No. JC1. Each...4.90 (Tax Incl.)

Polar Cub 10" Oscillating Fan (Model A-325). Sturdy, quiet worm drive oscillator, equipped with safety release for operation as oscillating or non-oscillating fan. Draws about 60 watts. New die-cast round base. Ocean grey finish, electrically baked. Four "Wind-duct" blades — big air output, quiet operation. Blade guard strong, welded triple-ring — bright finish. Complete with off-on switch, cord, and plug. Size 12" high, 11" wide. Shipping weight about 8 lbs.

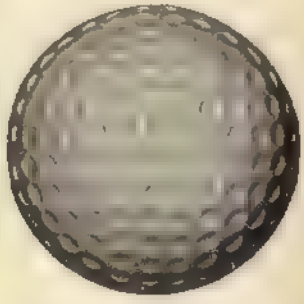
No. JC2. Each.....7.25 (Tax Incl.)

Last Minute Items!

"Shure-Shot" Golf Balls

Tough durable ball in the medium price field. Features a liquid center and wound with pure Para thread. Extra tough Gutta-Percha cover. Packed 1 dozen to carton

No. 11R26. Per dozen....5.88



"Winner" Golf Balls

Low priced ball with solid rubber center. Wound with pure Para thread. Extra tough Gutta-Percha cover. Durable construction. Packed 1 dozen to carton

No. 11R27. Per dozen .. 4.90

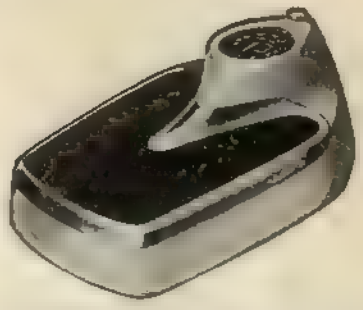
Health-O-Meter HEALTH SCALES

HEALTH-O-METER Bathroom Scale. Capacity 250 lbs. New streamlined compact model. Rubber covered platform. Dust free mechanism completely enclosed in one steel frame. Large crystal clear magnifying lens over attractive chrome bezel. White baked on enamel finish, size 9¾" x 11" x 2¾" inches. Packed individually. Retail 6.95

No. 20A10. Each 4.40

HEALTH-O-METER. Capacity 250 lbs. Large Magnifying lens over dial weight indicator for easy reading. Rubber covered platform. White, blue, yellow or black baked on enamel finish, with chromium trim. Size 13¾ x 10" Packed individually. Retail 7.95.

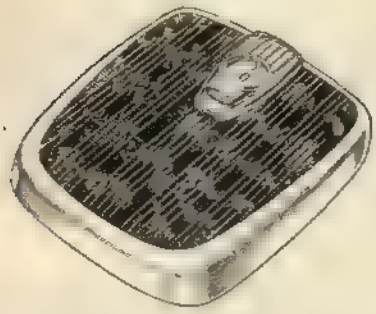
No. 20A2. Each 5.05



HEALTH-O-METER Heavy Duty Bathroom Scale. Capacity 300 lbs. Large easy reading clock type weight indicator. Platform is detached from base. Baked white enamel finish with chromium trim. Foot shaped platform rubber covered. Size 11x16". Packed individually. Retail 17.95

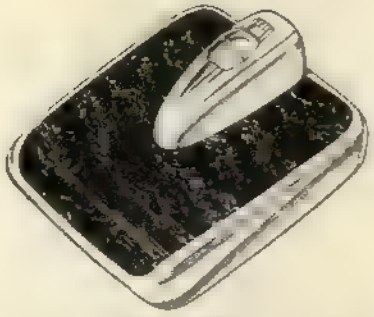
No. 20A4. Each 12.65

COUNSELOR HEALTH SCALES



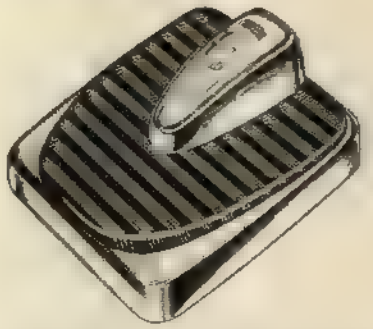
Counselor Flat Top Scale. Finest personal scale in the moderate price range. Its large flat top platform covered with colorful safety-grip rubber and rubber mat. Easy to clean with mats to match. Zerostat Dial Control for accuracy—magnifying dial lens for easy reading. Finished in high gloss enamel with chrome headplate. Retail 6.95.

No. 20A6. Each 4.63



Counselor Streamlined Scale. Exclusive Zerostat dial control with large magnifying lens for easy reading. Rolled front rubber covered platform. Twin-flex springs for greater accuracy. Gleaming baked enamel finish with chrome trim. Assorted colors with mats to match. Retail 7.95

No. 20A5. Each 5.30



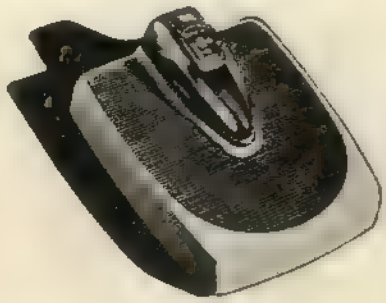
Counselor Deluxe Model with Electric Dial Light. Current supplied by a replaceable flashlight battery. Black ribbed mat. White, Jade, Blue or Yellow high-gloss enamel finish with chrome trim in dial housing. Magnifying dial lens and Zerostat dial control. Retail 8.95

No. 20A11. Each 5.97

DETECTO HEALTH SCALES

Detecto Bathroom Scale. White oven baked enamel. Big, easy-to-read figures under large magnified dial. Ribbed rubber mat. Fully enclosed mechanism. Extra heavy gauge steel body. 250 lbs. capacity. Fully guaranteed. Retail 6.95

No. 20A7. Each 4.65



Detecto Bathroom Scale. Oven-baked enamel finish in Maize, Rose or Black. Chrome headpiece. 250 lbs. capacity. Magnifying lens for quick easy reading. Takes less than one square foot of floor space. Fully guaranteed. Retail 7.95.

No. 20A8. Each 5.30

Detecto Folding Scale. Closer to the eye—no straining to read as magnified dial is in elevated tower. Folds compactly to the size of the usual bathroom scale. Sturdy steel construction housed in attractive shock-proof, moisture proof, durable plastic. Attractive white finish with black ribbed rubber mat. Size 10½" wide x 11½" deep x 12½" high; 5" high folded. Retail 12.95.

No. 20A9. Each 8.75

GLOBE-TROTTERS

. . . another S&R Scoop for 1951

REMEMBER—1950 Scoop—"Meet the Presidents"
1949 Scoop—"Huggin' the Rail"

HERE'S THE PROOF. Globe-Trotters has been pre-tested for sales appeal and consumer acceptance. One leading Seattle store, in four weeks, sold 1076 Globe-Trotters—or $3,228 of this game.

- $ For 2, 3, or 4 players
- $ Ideal for the whole family
- $ Makes geography fun
- $ Promotes wise use of money
- $ Polarized world map
- $ Novel plastic range-finder
- $ Comic strip directions
- $ Plane—ship—train travel

No. 44 GLOBE-TROTTERS. Large beautifully lithographed true-scale polarized world map board—20¼" x 20¼" —with colorful outside illustrated label. Separate implements box—9⅜" x 5⅛" x 1"—containing plastic range-finder, one ⅛" special catlin die, four leatherette markers, script money, thirty-eight chance cards and twenty-four continent cards. Comic strip directions. Packed one dozen to a carton —weight 22 pounds. List price $3.00.

SELCHOW & RIGHTER CO.

Makers of Parcheesi

200 Fifth Avenue, New York 10, N.Y.

Announcing the Arrival of

A NEW LINE OF . . .

BABY DOLLS
BLANKET DOLLS
ALL LATEX DOLLS
AND
VINYL DOLLS

CAN BE SEEN AT THE TOY SHOW

HOTEL McALPIN
ROOM 673-675

HOTEL NEW YORKER
ROOM 850

QUALITY DOLLS AT POPULAR PRICES

EEGEE DOLL

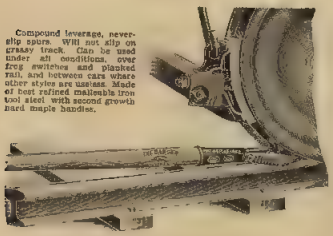
Goldberger Doll Mfg. Co., Inc.

1107 BROADWAY • NEW YORK 10, N. Y. • ROOM 1208

Rail and Mine Supplies

Car Movers

Compound leverage, never-slip spurs. Will not slip on greasy track. Can be used under all conditions, over frog switches and planked rail, and between cars where other styles are useless. Made of best refined malleable iron tool steel with second growth hard maple handles.



Badger

Stock No.	Mfr's. No.	Lgth. Ft.	lb Ea.	Cat. List EACH
6B 6769	9	5	15	$17.55

Extra Handles

Stock No.	Mfr's. No.	lb Ea.	Cat. List EACH
6B 6770	9EH	4½	$6.25

Extra Spurs

Stock No	Mfr's. No	To a Set	lb Ea.	Cat. List SET
2B 6771	23	2	¼	$1.90

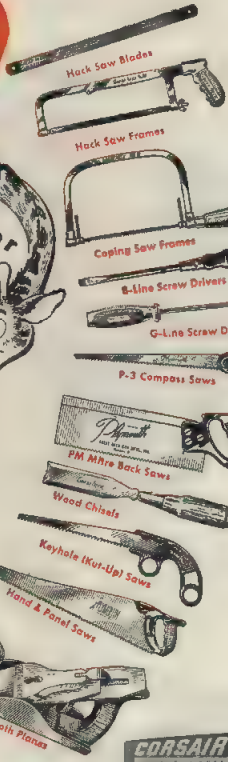
Gold Pans

One piece smooth steel, unpolished flaring pattern.

Stock No.	Mfr's. No.	Diam. Top In.	Depth In.	lb Doz.	Cat. List EACH
4F 5550	21	12	2¼	16	.80.90
4F 5551	41	14	2½	21	1.25

GREAT NECK'S GIRAFFE TRADE MARK SYMBOLIZES

the ACTION LINE for '51!



CIRCULAR SAWS
rip, cross cut and combination

For ACTION SALES— SEE YOUR JOBBER IMMEDIATELY!

Colorful Displays!

"Engineered Quality at POPULAR PRICES" means *volume sales!*

- *back saws*
- *hand saws*
- *keyhole saws*
- *hack saw frames*
- *panel saws*
- *mitre saws*
- *coping saw frames*
- *coping saws*
- *pruning saws*
- *wood chisels*
- *screw drivers*
- *compass saws & nests*
- *block planes*
- *fore planes*
- *jack planes*
- *smooth planes*
- *circular saws*
- *scratch awls*
- *putty knives*
- *wall scrapers*

GREAT NECK SAW MFRS. INC. - Woodside, New York

GOES A LONG WAY

Mention Hardware Age When Writing

TEDDY BEAR
WILLIE THE WOLF
HONEY LOU
NANCY LOU
MICKEY MOUSE
PLUTO
You are Cordially Invited
To Attend the Showing
OF THE
NEWEST Gunds
AND WORLD FAMOUS
WALT DISNEY CHARACTER MERCHANDISE
The Finest in over Half a Century
Gund MANUFACTURING CO.
J. SWEDLIN, INC., SUCCESSOR
ROOM 232
200 FIFTH AVE., NEW YORK 10, N. Y.
Featuring a Complete Line of:
STUFFED ANIMALS
ACETATE PACKAGED TOYS
SOFT DOLLS
WASHABLE TOYS
HAND PUPPETS
MUSICAL TOYS

Great Gunds

for 1951

Donna Lou—"Momma" Doll

"Sweet Dreams" Doll

Walt Disney's© Alice in Wonderland Group

Walt Disney's© Musical Toys

Shoe-Button Doll

It was a Grand Toy Fair

Here is a message of thanks along with a note of apology . . . Thanks to all buyers who helped to make this one of the busiest Toy Fairs in 53 years of Gund History . . . And thanks to those buyers who were so considerate and understanding during the hectic rush periods in our jam-packed showrooms . . . Everyone at Gund is pledged to reward both your patronage and your patience with the finest Gund Line in years!

Since 1898 GUND means real value in STUFFED TOYS

Gund

NEW YORK • CHICAGO • SAN FRANCISCO • LOS ANGELES • SEATTLE

MANUFACTURING COMPANY

J. SWEDLIN, INC., Successor, 200 Fifth Ave., New York, N. Y.

Nationally Advertised
in PARENTS' Magazine

mlle. mimi

makes all the buyers go "oui, oui!"

Now . . . Hol-le adds the "French touch" to their meticulous workmanship and outstanding quality. Be first in your city to introduce Mlle. Mimi, Hol-le's enchanting French poodle . . . she's as provocative as a French movie star and just as big "box-office." Blue and white basque shirt, red skirt, shoes and bow. Washable, durable, stain-resistant and colorfast. Finest quality soft plastic.

#D-440, approx. 18" tall, to retail about $3. Send for catalog sheets of other Hol-le soft plastic animals and dolls to retail about $1 to $4.

Hol-le toys

SHOWROOM: 200 Fifth Ave., New York 10, N. Y.
FACTORY: 148-150 Post Ave., New York 34, N. Y.

HALE-NASS Corporation

489 Broome St., New York 13, N. Y.

TEDDY BEAR
WILL E THE WOLF
NANCY LOU
MICKEY MOUSE
PLUTO
You are Cordially Invited
To Attend the Showing
OF THE
NEWEST Gunds
AND WORLD FAMOUS
WALT DISNEY CHARACTER MERCHANDISE
The Finest in over Half a Century
Gund MANUFACTURING CO.
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ROOM 232
200 FIFTH AVE., NEW YORK 10, N. Y.
Featuring a Complete Line of:
STUFFED ANIMALS
GIFT PACKAGED TOYS
SOFT DOLLS
WASHABLE TOYS
HAND PUPPETS
MUSICAL TOYS

HALSAM TOYS

Now Featured on TELEVISION! Coast-to-Coast . . . Every Week!

HALSAM

On ABC'S Network "FUN FAIR" WENR-TV'S Children's Show, other Networks

And many other programs originating in major cities all across the land!

HALSAM'S famous line of toys literally "come to life" in the powerful, action-filled medium of television! In millions of American homes, HALSAM'S name and products are being dramatized to children and parents alike. That makes HALSAM *the product* to sell . . . *the name* to sell in TOYLAND.

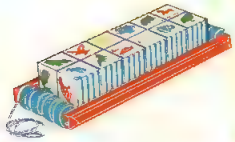
ature these
rush-Proof" HALSAM
od and Plastic Toys:

ATORS of Embossed
HABET, HI-LO, and
TURE SAFETY BLOCKS
LER CART with BLOCKS
STIC and HARDWOOD BRICKS
ERICAN LOGS
OK PLASTIC BLOCKS
STIC and HARDWOOD
CKERS and DOMINOES.

eral Offices: 4114-4124 Ravenswood
ve., Chicago 13, Ill.

s Office and Display: Fifth Ave. Bldg.,
00 Fifth Ave., New York 10, N. Y.

ROLLER CART with BLOCKS
Filled with Halsam's famous "Hi-Lo" interlocking blocks, this new pull toy actually "sells on sight."



AMERICAN PLASTIC BRICKS
Sturdy, durable plastic . . . inter-locking for sound construction of houses, buildin bridges Whole building moves easily.

AMERICAN HI-LO SAFETY BLOCKS
Blocks that build better because they have patented, inter-locking grooves. The standard by which all other blocks are judged

TELEVISION promotion makes HALSAM TOYS Your Best "Tie-In Line for '51"

AMERICAN LOGS
Authentic "log cabin" building set, with exclusive ax-hewn effect and stained to natural cabin color.

ALPHABET SAFETY BLOCKS
Embossed A-B-C blocks with brilliant new colors. Features the alphabet, with letters printed in colors on four sides. Educational as well as fun.

EMBOSSED HARDWOOD DOMINOES
Beautifully finished double-six, double nine and double-twelve sets. Embossed in decorative patterns. Available with colored dots . . . packaged to sell!

HALSAM
PRODUCTS COMPANY

HALSAM TOYS

Now Featured on TELEVISION! Coast-to-Coast . . . Every Week!

HALSAM

On ABC'S Network "FUN FAIR" WENR-TV'S Children's Show, other Networks

And many other programs originating in major cities all across the land!

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eature these Crush-Proof" HALSAM ood and Plastic Toys:

EATORS of Embossed PHABET, HI-LO, and CTURE SAFETY BLOCKS OLLER CART with BLOCKS ASTIC and HARDWOOD BRICKS MERICAN LOGS LOK PLASTIC BLOCKS ASTIC and HARDWOOD ECKERS and DOMINOES.

neral Offices: 4114-4124 Ravenswood Ave., Chicago 13, Ill.

les Office and Display: Fifth Ave. Bldg., 200 Fifth Ave., New York 10, N. Y.

AMERICAN PLASTIC BRICKS
Sturdy, durable plastic . . . inter-locking for sound construction of houses, buildings bridges. Whole building moves easily.

ROLLER CART with BLOCKS
Filled with Halsam's famous "Hi-Lo" interlocking blocks, this new pull toy actually "sells on sight."

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Blocks that build better because they have patented, inter-locking grooves. The standard by which all other blocks are judged.

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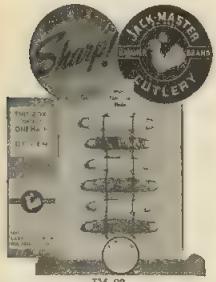
EMBOSSED HARDWOOD DOMINOES
Beautifully finished double-six, double-nine and double-twelve sets. Embossed in decorative patterns. Available with colored dots . . . packaged to sell!

HALSAM
PRODUCTS COMPANY

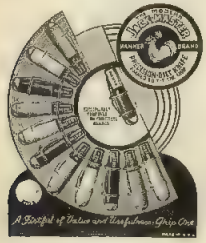
KNIFE ASSORTMENTS



JM 83

Assortment of medium size pen knives. Knives measure 2¾ and 3⅛ in. in length, made up with full nickel type bolsters, straight pattern. Blading is master spear and pen, made of high carbon cutlery steel. Assorted colored handles. Packed one dozen to the multi-colored display card. Weight per assortment 1 lb.

No. JM 83 ..... Per assortment $6.00



JM 266

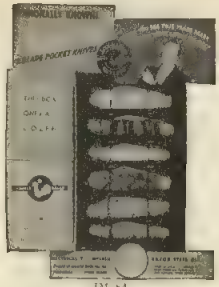
Medium size Barlow Knife. Knives measure 3⅛ in. in length, made up with full nickel type bolsters marked Barlow. The blading is clip and pen. Packed one dozen to the display card and have red, black and white handles. Weight per assortment $1\frac{15}{16}$ lbs.

No. JM 266 ..... Per assortment $6.00

JM 600

Heavy two blade jack measuring 3⅝ in in length made up with full nickel type bolsters brass lined, blades are made of special high carbon cutlery steel. The blading is large clip and pen. Packed one dozen to attractive display card, assorted handles.

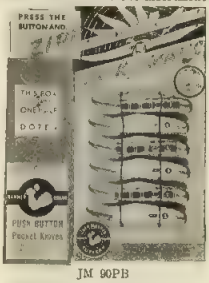
No. JM 600 ..... Per assortment $9.00



JM 84

Assortment of medium size two blade jacks. The knives measure 2¾ and 3⅛ in in length. The knives are made up with ful. nickel type bolsters. Patterns are assorted, straight and serpentine Blading is master clip and pen, made from high carbon cutlery steel The handles are attractively assorted imitation pearl and colors Packed one dozen to the card Weight per assortment 1⅞ lbs

No. JM 84 ..... Per assortment $6.00



JM 90PB

A new safety push button knife. The knife measures 4⅛ inches in length and is made up with full nickel type bolsters and brass linings. The knife has a scientifically designed automatic push button opening manufactured with precision equipment and each knife is equipped with a safety lock. Assorted imitation pearl and attractive candy stripe handle. Packed 6 to a display card and 6 to a shelf box. Per assortment 1⅞ lbs.

No. JM 90PB ..... Per assortment $16 00

JM 611

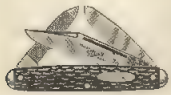
Full size four piece outdoor knife made up with full nickel silver bolsters, brass lining, simulated stag handle. The blade is master spear, can opener, combination cap lifter and screw driver and leather punch. Each knife has a shackle suitable for attachment to chain. Packed one dozen to attractive display box.

No. JM 350 ..... Per dozen $16.00
Packed one dozen to Display Box

ULSTER POCKET KNIVES

No 2173-B

Senator Pattern Pen Knife, 3½ inches long, Black Stag Handles, 2 Blade (Spear and Pen), Brass Linings, Nickel Silver Bolsters Blades Full Mirror Polished.
Weight Per Dozen Approx. 1 lb
No. 2173B ... ... Per dozen $12.00

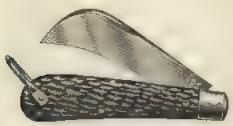


No. 74B

Senator Pattern, 3¼ inches long; Brown Stagged Handles; 3 Blades (Clip, Spey and Flexible Nail File); Brass Linings; Nickel Silver Tips and Shield, Blades Full Mirror Polished.
Weight Per Dozen Approx. 1½ lbs.
No. 74B ..... Per dozen $18.00

No. 44G

Premium Stock Knife, 3½ inches long, Genuine Stagged Handles; 3 Blades (Turkish Clip, Sheepfoot and Spey); Brass Linings, Nickel Silver Bolsters and Shield, Blades Full Mirror Polished
Weight Per Dozen Approx. 2 lbs.
No. 44G ..... Per dozen $24.00

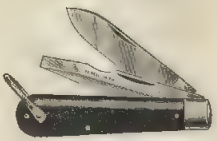


No. 18S

Pruning Knife, 4 inches long; Black Stagged Handles; One Large Pruning Blade; Brass Linings; Nickel Silver Bolsters and Shackle; Blade Full Mirror Polished
Weight Per Dozen Approx. 2½ lbs.
No. 18S ..... Per dozen $12.00

ULSTER DISPLAY CASE

Attractive counter display case, nicely finished, Velvet lined trays
Ulster Display Case
Without Knives

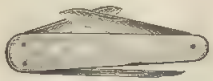


No. 29

Rosewood handles; Electricians Knife 3¾ inches long; 2 blades, spear and screwdriver—wire scraper. Center safety lock, brass linings. Nickel silver bolsters and shackle Spear blade full mirror polished.
No. TL29 ..... Per dozen $18.00
Weight per dozen 3 lbs.

No. 200

Senator Pattern Pen Knife, 2¾ inches long; Genuine Mother-of-Pearl Handles; 2 Blades (Spear and Pen), Brass Linings, Blades Full Mirror Polished
Weight Per Dozen Approx. 1 lb.
No. 200 ..... Per dozen $30.00



No. 3267

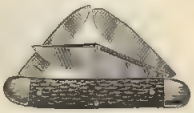
Sleeveboard Fileback Pen Knife, 2⅞ inches long; Genuine Mother-of-Pearl Handles; 3 Blades (Spear, Pen & Rigid Nail File); Blades Full Mirror Polished.
Weight Per Dozen Approx 1¼ lbs.
No. 3267 ..... Per dozen $30.00

No 344B

Premium Stock Knife. 3½ inches long; Brown Stagged Handles; 3 Blades (Turkish Clip, Sheepfoot & Spey); Brass Linings; Nickel Silver Bolsters, Blades Full Mirror Polished.
Weight Per Dozen Approx. 2 lbs.
No. 344B ..... Per dozen $18.00

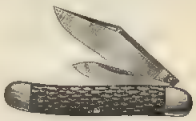
No 355S

Slim Premium Stock Knife, 3¼ inches long; Black Stagged Handles; 3 Blades (Clip, Spey & Pen), Brass Linings, Nickel Silver Bolsters; Blades Full Mirror Polished.
Weight Per Dozen Approx. 1½ lbs.
No. 355S ..... Per dozen $18.00



No. 45G

Medium Size Premium Stock Knife, 3¾ inches long, Genuine BONE STAG Handles, 3 Blades (Clip, Spey & Pen); Brass Linings Nickel Silver Bolsters; Master Blade Polished Mark Side Only, Other Blades Glazed on Both Sides.
Weight Per Dozen Approx. 2 lbs.
No. 45G ..... Per dozen $24.00



No 240S

Medium Serpentine Jack Knife, 3½ inches long; 2 Blades (Clip & Pen); Brass Linings; Nickel Silver Bolsters; Blades Full Mirror Polished
Weight Per Dozen Approx. 2 lbs.
No. 240S ... . Per dozen $12.00

No. 230S

Equal End Jack Knife, 3⅝ inches long; Black Stagged Handles, 2 Blades (Clip & Pen); Brass Linings; Nickel Silver Bolsters; Blades Full Mirror Polished
Weight Per Dozen Approx 2 lbs.
No. 240S ..... Per dozen $12.00

No. 250S

Slim Serpentine Jack Knife, 3¼ inches long; Black Stagged Handles; 2 Blades (Clip & Pen); Brass Linings, Nickel Silver Bolsters; Blades Full Mirror Polished.
Weight Per Dozen Approx. 1¾ lbs.
No. 250S ..... Per dozen $12.00

No. 164S

Cap and Bolster Jack Knife, 3⅝ inches long, Black Stagged Handles; 2 Blades (Sheepfoot & Pen); Brass Linings; Nickel Silver Caps & Bolsters; Blades Full Mirror Polished.
Weight Per Dozen Approx. 2 lbs.
No. 164S ..... Per dozen $12.00

Genuine Carnelian cameo pendant **10K Yellow Gold mounting.** 16" chain. Rich presentation box. **Retail $19.50.**
116D78.....**EACH $8.75**

Carnelian cameo earrings **10K Yellow Gold mountings.** Pierceless style **At top. Retail $20.00.**
137D135.....**PER PAIR $10.15**
At bottom. Retail $26.00.
137D136.....**PER PAIR $13.15**

Genuine Carnelian cameo set in ultra modern **10K Yellow Gold mounting.** 16" chain. Beautiful presentation case. **Retail $24.50.**
116D80.....**EACH $12.40**

Carnelian cameo earrings **10K Yellow Gold mountings.** Pierceless **At top. Retail $22.95.**
137D138.....**PER PAIR $11.65**
At bottom. Retail $26.25.
137D137.....**PER PAIR $13.15**

Genuine Carnelian cameo pendant **10K Yellow Gold mounting.** 16" chain. Gift packaged. **Retail $24.50.**
116D81.....**EACH $12.40**

Lovely Carnelian cameo brooch **10K Yellow Gold mounting.** Safety catch Loop. **Retail $28.50.**
118D51.....**EACH $14.25**

10K Yellow Gold mounting. Hand carved Carnelian cameo Pendant loop. Safety catch Boxed. **Retail $31.00.**
118D50.....**EACH $15.40**

Genuine Carnelian cameo and White Zircon **10K Y.G. mounting.** Pendant loop. Safety catch **Retail $45.00.**
118D52.....**EACH $22.50**

10K Yellow Gold mounting. Carnelian cameo Diamond Pendant loop Safety catch Boxed **Retail $50.00.**
118D53.....**EACH $25.50**

10K Yellow Gold heart-shaped mounting. Genuine Carnelian cameo Pendant loop Safety catch **Retail $27.00.**
116D54.....**EACH $18.40**

This 10K Yellow Gold bow adds a pert touch to any costume. Set with simulated Topaz or Sapphire Safety catch.
1D385.....**EACH $8.25**

Superbly fashioned 10K Yellow and Green Gold spray pin Striking contrast is furnished by metal and simulated Amethyst or Sapphire stone.
1D197.....**EACH $9.00**

BROOCH & EARRING SET

Unusually pretty brooch and earring ensemble of 10K yellow gold. Bright color is added by seven brilliant synthetic ruby stones mounted in bud design Matching earrings set with seven ruby stone Earrings are pierceless Exquisitely styled for the discriminating woman. Gift boxed.
118D38.....**PER SET $14.65**

BABY CROSS

Baby cross and chain. 10K yellow gold. Each in display box.
132D100
.....**EACH $1.95**

Dealer Note: Mark all jewelry orders "For Resale," otherwise 30% Federal Excise Tax will be added to invoice.

MEN'S NEWEST-STYLE SCARF OR TIE PINS

10K Yellow Gold Scarf or Tie Pin. Polished Blue stream Combination prong mounting. **Retail $12.50.**
122D151—
EACH $5.65

10K Yellow Gold Pin. Set with 2 stones. Genuine cultured pearl at top. Diamond set below **Retail $27.00.**
122D148—
EACH $13.50

10K Yellow Gold Pin. Genuine Carnelian cameo An unusual style pin for tie or scarf **Retail $13.50.**
122D152—
EACH $6.75

10K Yellow Gold Pin. Inlaid Mother-of-Pearl with raised, enameled Masonic emblem. **Retail $15.00.**
122D150—
EACH $7.50

BABY PICTURE LOCKET

Little baby's picture locket of 10K yellow gold. Sturdy 13" chain. Tiny heart is carefully hand engraved. Gift boxed.
136D194.
EACH $2.90

CAMEOS and ONYX*

Gold Filled Mountings, 1/20-12K.
Gift Boxed

A 248J258T Retail Per Set $18.15 — Dealers Cost $ 9.07 Per Set
B 248J259T Retail Per Set $15.00 — Dealers Cost $ 7.50 Per Set
C 248J260T Retail Per Set $22.90 — Dealers Cost $11.45 Per Set
D 248J261T Retail Per Set $26.65 — Dealers Cost $13.32 Per Set
E 248J262T Retail Per Set $19.50 — Dealers Cost $ 9.75 Per Set
F 248J263T Retail Per Set $22.15 — Dealers Cost $11.07 Per Set
G 248J264T Retail Per Set $18.00 — Dealers Cost $ 9.00 Per Set
H 248J265T Retail Per Set $22.15 — Dealers Cost $11.07 Per Set
I 248J266T Retail Per Set $22.15 — Dealers Cost $11.07 Per Set

*Imitation Onyx

All Cameos are Genuine Hand Carved Shell; Onyx are Set with Rhinestones. Pendants have 15" Chains; Brooches may also be worn as Pendants; Earrings are Screw Type Pierceless. All are Gift Boxed in Karess Velvet over Steel as illustrated on Reverse Side of this Page. Items are shown 4/5 Actual Size.

Women's Fine Jewelry . . . Exquisite Design . . . Incomparable Craftsmanship

Necklace *and* Earring *Sets*

A 248J253T Retail Per Set $20.90 — Dealers Cost $10.45 Per Set
B 248J254T Retail Per Set $20.65 — Dealers Cost $10.33 Per Set
C 248J255T Retail Per Set $16.50 — Dealers Cost $ 8.25 Per Set
D 248J256T Retail Per Set $15.40 — Dealers Cost $ 7.70 Per Set
E 248J257T Retail Per Set $13.50 — Dealers Cost $ 6.75 Per Set

Brilliant Simulated Stones in Aqua, Amethyst, Emerald, Rose, Sapphire and Topaz in 1/20-12K Gold Filled Settings. Gift Boxed in Karess Velvet Over Steel, as illustrated. Pendants have 15" Chains; may also be worn as Brooches; Screw Type Pierceless Earrings. Items are shown actual size except B which is about ½ size.

Women's Fine Jewelry . . . Exquisite Design . . . Incomparable Craftsmanship

HAND LAWN MOWERS

REO NOISELESS
Specifications

CONSTRUCTION—All steel WIDTH of CUT: 17". Overall width, 22½". Cuts to within 2¾" of edge. WHEELS—Rubber Tired 9" Diameter. Tires project slightly to protect trees and shrubs. REAR ROLLER—Select Hardwood. REEL—5 Tool Steel Blades, heat treated and double riveted to 4 heavy steel spiders, ¾" solid steel reel shaft. LOWER BLADE AND CUTTING BAR—One piece tool steel, heat treated. BLADE ADJUSTMENT—Two brass micrometer type hand operated adjusting screws permit precise alignment of bottom knife to reel within .001". BEARINGS—Reel Bearings are automotive type annular Ball bearings sealed on both sides with Neoprene Seals. Oilite wheel and gage roller bearings. CHAIN GEAR—Riveted into wheel, crimped into sheet metal . . . lasts years longer than less costly gears. LUBRICATION—Grease the wheels once a year. Reel Bearings are permanently packed with lubricant and require no attention. HANDLE—Tubular steel. Rubber Grips. NET WEIGHT—39 pounds each.

No. D17 17 in. ..... Each $29 95
Mower and handle packed in one carton

CLEMSON ALL-STEEL
10-Inch Wheels, 5 Blades, Ball-Bearing

Five forged carbon alloy steel blades, hard ened and tempered. The four reel spiders are integrally-cast around blades and shaft, and are made of the same strong alloy as the wheels and housings. Ball bearings on reel shaft are double grease sealed at factory, never require oiling or greasing. Roller-bearing wheels. One-piece hardened and tempered bed knife. Fractional-inch adjustment of bed knife by single knurled knob, gives perfect alignment with reel knives. Tubular steel handle. Selected rock maple roller, adjusted by two wing bolts. Rubber tires. Handle, wheels and gear housings finished in baked-on yellow enamel.

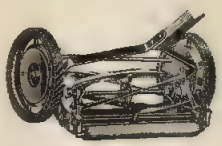
No. E-17 Width of cut 17 in ..... Each $29 95
Shipping weight 33 lbs

JOHNSTON ALL STEEL

Easy running, light weight, clean shearing is built to last a lifetime. Cutting edge adjustment so fine that the blade can be brought to within 5/10000 of an inch of the bed of the knife. Made in two sizes 16" and 18" cutting widths. Cutting height, low ⅝" high 2½". 6 inch diameter wheel, 5 blades made from high carbon crucible steel, induction hardened. Wheel gears formed steel, case hardened. New Departure Bearings protected with labyrinth type oil and dust shields. Roller selected hardwood 2¼" diam. with steel bearings. Tires 10.50x1.75 rubber cushion tires. Handle tubular steel with molded rubber comfort grips. Finished in baked enamel.

Nos.	AR-16	AR-18
Width cut, in	16	18
Net wgt., lbs.	38½	40½
Each	$28.50	29.50

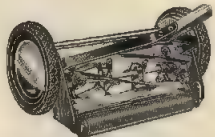
OHIO STATE RUBBER-TIRED



11-Inch Wheels, 5 Blades, Ball-Bearing

Five heat treated alloy steel, revolving blades, diameter of reel 6 in. Cups and cones guaranteed never to wear out or require adjustment. Simple, accurate set screw adjustment at each end and center of knife bar. Sturdy knife bar mounted on shoulders. Fine alloy steel bed knife, detachable. Shrub rod and reel shaft both of ⅝-in. steel. Extra long wheel base. Solid rubber non-skid tires. Finished in gold and aluminum bronze with scarlet trim. Extra large handle.

Nos.	1114RT	1116RT	1118RT	1120RT
Width cut, in..	14	16	18	20
Shipping wgt., lbs.	49	51	53	56
Each	$18.95	19 95	20 95	21 95



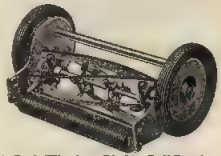
10-Inch Wheels, 5 Blades, Ball-Bearing

Modernistic, streamlined, quiet operation. Reel 6 in. diameter, five alloy steel revolving blades, four malleable alloy spiders. Extra heavy alloy steel bed knife, lipped, detachable. Knife bar mounted on shoulders. Semi-pneumatic rubber tires, chromium hub caps. Large chromium shrub bar. Oversize quiet rubber roller. Furnished in green, yellow or orange enamel finish. Tubular steel handle, aluminum finish.

Nos.	QT-16-G	QT-16-Y	QT-16-O
Width cut, in.	16	16	16
Color	Green	Yellow	Orange
Ship. wgt., lbs	48	48	48
Each	$24 95	24 95	24 95

Nos.	QT-18-G	QT-18-Y	QT-18-O
Width cut, in.	18	18	18
Color	Green	Yellow	Orange
Ship wgt., lbs	50	50	50
Each	$25.95	25 95	25.95

GRASS GROOMER RUBBER TIRED

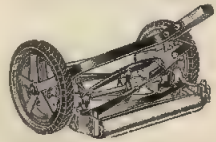


10-Inch Wheels, 5 Blades, Ball-Bearing

Ball bearing revolving cutter, diameter 6 in., five alloy steel knives, four malleable alloy spiders. Patented ball-bearing device with cups and cones. Detachable, lipped, alloy steel bed knife. Knife bar mounted on shoulders. Accurate set screw adjustment. Large semi-pneumatic rubber tires. Shrub bar 1 in. diameter. Rubber roller. Light green enamel finish, yellow and black trim. Varnished wood handle.

Nos.	GG-16	GG-18
Width cut, in.	16	18
Ship wgt., lbs.	47	49
Each	$19.95	20 95

SCIOTO RUBBER-TIRED

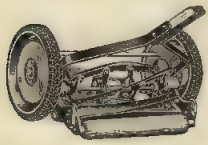


10-Inch Wheels, 5 Blades, Ball-Bearing

Heat treated alloy steel revolving blades, diameter of reel 6 in. Sturdy knife bar mounted on shoulders, with simple accurate adjustment. Alloy steel bed knife. Solid rubber tires. Finished in aluminum with orange trim.

No. S-16-RT -Width of cut 16 in., shipping weight 44 lbs. ..... Each $16.95

LAWN MOWERS
DIAMOND DELUXE



10-Inch Wheels, 5 Blades, Ball Bearing

Five heat treated alloy steel revolving blades, diameter of reel 6 in. Cups and cones guaranteed never to wear out or require adjustment. Sturdy knife bar mounted on shoulders, with simple accurate adjustment. Fine alloy steel bed knife, detachable. Shrub rod and reel shaft both of ⅝-in. steel. Closed type wheels. Solid rubber non-skid tires. Finished in gold bronze with green trim

No. 1016RT—Width cut 16 in., shipping weight 51 lbs ..... Each $21 95

CARDINAL RUBBER-TIRED

10-Inch Wheels, 5 Blades, Ball-Bearing

Five heat treated alloy steel revolving blades, diameter of reel 6 in. Cups and cones guaranteed never to wear out or require adjustment. Sturdy knife bar mounted on shoulders with simple, accurate adjustment. Fine alloy steel bed knife. Shrub rod and reel shaft both of ⅝-in. steel. Solid rubber non-skid tires. Finished in gold bronze with red trim

Nos.	514RT	516RT	518RT
Width cut, in.	14	16	18
Ship wgt., lbs.	42	45	47
Each	$17.95	18.95	19.95

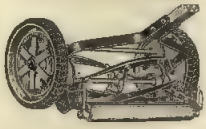
NEW BED BIRD RUBBER-TIRED

10-Inch Wheels, 5 Blades, Ball Bearing

Five hardened and tempered alloy tool steel blades self-sharpening. 6-in reel, malleable spiders riveted to full length steel shaft. Bottom knife tempered chrome alloy steel, detachable. Machine fitted wheel spindles Double gears, extra large pinions and lock lipped steel pawls. Full speed gear ring. Full automatic ball bearings with patented controlling steel sleeve, never require attention Semi-pneumatic non-skid rubber tires. Gold bronze finish, trimmed in red. Handle cross bar red enameled.

Nos	416RT	418RT
Width cut, in.	16	18
Ship wgt., lbs	47	50
Each	$16 95	17.95

HUDSON RUBBER-TIRED

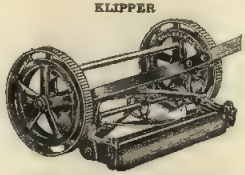


10-Inch Wheels, 4 Blades, Ball Bearing

Four heat treated alloy steel revolving blades, diameter of reel 6 in. Fine alloy steel bed knife. Shrub rod and reel shaft both of ¾-in steel Rubber tires. Finished in gold bronze with green trim

Nos.	614RT	616RT	618RT
Width cut, in.	14	16	18
Ship. wgt., lbs.	41	44	46
Each	$13 95	14 95	15 95

KLIPPER



10-Inch Wheels, 4 Blades, Ball-Bearing

Heat treated alloy steel revolving blades, diameter of reel 5½ in Alloy steel bed knife Finished in gold bronze with green trim.

No. K-16-4—Width of cut 16 in., shipping weight 42 lbs ..... Each $13 95

SCIOTO

10-Inch Wheels, 5 Blades, Ball-Bearing

Heat treated alloy steel revolving blades, diameter of reel 5½ in. Alloy steel bed knife Finished in aluminum with orange trim

No. S-16-5—Width of cut 16 in., shipping weight 43 lbs. ..... Each $15 95

OAKWOOD

10-Inch Wheels, Ball-Bearing Cutter

Adjustable throughout, self-sharpening, 6-in. ball bearing revolving cutter, detachable tempered bed knife Finished in aluminum and gold bronze, trimmed in blue Varnished hardwood handle All knives alloy steel.

Roller-Bearing Wheels, 5 Blades

No. 150—Width cut, in.	14	16	18
Ship wgt., lbs.	48	50	52
Each	$17 95	18.95	19.95

THRIFTY

8-Inch Wheels, 4 Blades, Ball Bearing

Adjustable alloy bed knife. Diameter of cutter reel 5½ in. Spoked wheels. Furnished in gold bronze with red trim. A reliable, low priced, ball-bearing mower

Nos	112	114	116
Width cut, in	12	14	16
Ship. wgt., lbs	35	36	38
Each	$10 95	11 95	12.95

LAWN TRIMMER
DIAMOND, WITH EDGER

Five revolving blades, easy adjustment Ball bearing. Half of a small lawn mower. Will cut very close to wall or tree.

Diamond with Edger ..... Each $23 00
Weight 31 Lbs

Hassenfeld

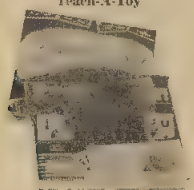
Mr. Potato Head

Packaged in a window acetate box. The various component parts are arranged on a simulated potato. Contains a large quantity of colorful plastic features which may be placed on any piece of fruit or vegetable to create another character. Full color counter display included in master carton.

Stock No.	Mfr's. No.	In Each	Cat. List EACH
4H 2554	2000	1	$1 00

Twenty four in a carton

Teach-A-Toy



Teach-A-Toy plastic alphabet stencil set. A popular priced version of this tremendously successful educational toy

Stock No.	Mfr's No.	Box size In.	lb Doz	Cat. List EACH
4H 2588	1950	18⅞x10⅞x1	12	$1 25

Two dozen in a carton

Teach-A-Toy stencil set contains a series of brightly colored animal stencils which will give hours of educational enjoyment

Stock No.	Mfr's. No.	Box Size In.	lb Each	Cat. List EACH
4H 2589	1962	17¼x12¼x1⅛	1	$1 90

Twenty-four in a carton

Make Up Kit—With Removable Top Tray

Kit contains plastic powder case and plastic rouge case. Plastic combination comb and shoehorn. Plastic lipstick tube with make-believe movable lipstick. Also includes nail buffer facial tissues, nail polish bottle, powder box, etc. In lithographed box with metal lock and handle.

Stock No	Mfr's. No.	Size In.	lb Doz.	Cat. List EACH
4H 2581	1910	10¼x6x4	18	$1 00

Two dozen in a carton.

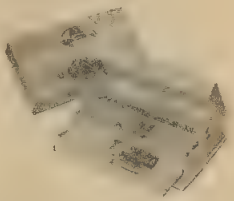
Alice In Wonderland Make-Up Kit

Walt Disney has added charm and sales appeal to this smartly styled toy make-up kit.

Stock No.	Mfr's. No.	Size In.	lb Doz	Cat. List EACH
4H 2575	1915	10¼x6½x2¾	18	$1 95

One dozen in a carton.

Hopalong Cassidy Pencil Box



Handsome saddle tan leatherette with handy metal carrying handle, and utility drawer. Hopalong Cassidy two color imprint. Quality built and quality filled. Contains 22 items

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Doz	Cat. List EACH
4H 2594	355	9	5	2	10	$0 85

One half dozen in a carton

Hopalong Cassidy Pencil Box

Super size and value in this handsome 2 drawer deluxe box. Saddle tan leatherette with Hopalong Cassidy imprint. Contains 36 items.

Stock No	Mfr's. No.	Inches Lgth	Wd.	Ht.	lb Doz.	Cat. List EACH
4H 2598	365	11	4½	2¾	12	$1 15

One-half dozen in a sleeve.

Hassenfeld

Plasto-Riter

Giant plastic pencil case. It writes, it sharpens, it erases. Assorted brilliant colors. Filled with 8 quality items. 11 inches long, 1 ¾ inches in diameter.

Stock No.	Mfr's No.	ⓜ Doz.	Cat. List EACH
4H 2595	92	3	$0 55

Seventy-two in a box.

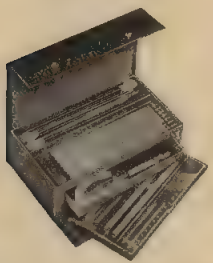
Plastic Gift Assortment

Assortment contains 6 No. 126 soldier crayon case, 6 No. 120 clown crayon case, 24 No. 171 yo-yo pencils, 6 No. 26/25 colorite, 6 No. 144 ukelele pencil box, 6 No. 133 golf pencil set, 6 No. 92 pixet crite. Complete in individual corrugated box.

Stock No.	Mfr's No.	Box Size In.	ⓜ Each	Cat. List ASST
4H 2555	810X	15x11x4½	6	▲$12 00

One in a carton.

"2-in-1" Pencil Box



Pencil box with a separate, removable plastic carrier that is a complete portable pencil box in itself. Boxes contain molded ink-line ruler, oversized tip Pixet-O-Cap pencils, plastic penholders, writing and coloring pencils, erasers. Contains 30 quality school supply items.

Stock No.	Mfr's No.	Size In.	ⓜ Doz.	Cat. List EACH
4H 2396	388	9x5x2½	17½	$2 10

Two dozen in a carton.

Knife-Writer Pencil Case

A smart, realistic knife pencil case. Sturdily constructed of colorful plastic. Contains useful school items, plus built-in watch spring steel precision sharpener.

Stock No.	Mfr's No.	Lgth. In.	ⓜ Each	Cat. List EACH
4H 2558	150	8	1/3	$0 60

Seventy-Two in a carton.
▲We do not break assortments.

HEDDON, HELIN, SOUTH BEND, WALTO, LUR-ALL, ARBOGAST FLIES

Heddon "Wilder-Dilg-Spook." A favorite lure with a famous name. Transparent "spook" body assuring permanent buoyancy. Darts and dives when twitched. For crappies, bluegills and other panfish. Colors XRY, XRS, XRW and XBW. Dealer $ 12 dozen.

No. 18R115. Less 2% net.
Per dozen... 6.00

Heddon
"POP-EYE FROG"
A Fly-rod Lure

Heddon "Pop-Eye Frog." An extremely popular fly-rod lure. Perfect frog coloration, popping eyes and bucktail legs. Its real frog-like action makes it irresistible to bass and panfish. Effective weed guard. Length 3½ inches—No. 2 Weedless hook. Colors GF, LF. Dealer $ 20 dozen.

No. 18R117. Less 2% net.
Per dozen.....7.06

Heddon "Popper-Spook." A real "popping" lure for the fly rod. Made of transparent "spook" material and cannot become water-soaked and logy. Cupped mouthpiece produces fish-getting bubbles. Excellent for bass, rock bass, bluegills and other panfish. Length 1⅛ inches—No. 6 Hook. Colors WR, GR, BR and Y. Dealers $ 12 dozen.

No. 18R116. Less 2% net.
Per dozen.....6.00

Helin Flatfish. Baby Fly Rod Model. Popular floating lure with unsurpassed action. Standard one-gang (one treble) hook. Length 1½". Packed one dozen.

No	Color	Per Doz
18R254	Orange	7.76
18R255	Frog	7.76
18R256	Black	7.76
18R257	White and red	7.76

South Bend Trix-Oreno. Length 1⅝ inches. Size 1 hook. Equipped with barrel swivel and rubber pork rind for added attractiveness. Supplied in patterns RH, CH, G. Packed one dozen in a container.

No. 18R80. Per dozen . . 4.58

Fred Arbogast Fly Rod Hula Popper. Noisy, lively action popper equipped with small skirt. Weight 1/16 oz., length 1½". No. 1/0 hook, cork body. Assorted colors. Packed one dozen.

No. 18R161. Per dozen . . 5.29

Fred Arbogast Fly Rod Tin Liz. Made of strong, light Duralumin. Real cripple action. Can be used for spinning. Weight 1/64 oz., length 1½". No. 1 hook. Assorted colors. Packed one dozen.

No. 18R163. Per dozen..... 3.53

Walto Min-O-Fly. Made of soft nickel silver, with best quality hollow point hooks. Hair tail gives extra action. Assorted patterns. Packed one dozen to card.

No.	Body Size	Per Doz.
18R119/1	¼ x ⅜"	3.53
18R119/2	⅜ x ½"	4.59
18R119/3	½ x 1"	5.29

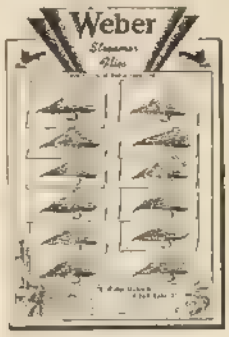
Walto Minnow. Suitable for all types of fishing. Solid nickel silver body with hollow point hook. Lively minnow action—darts, flutters, and wiggles. Packed one dozen to display card.

No.	Body Size	Per Doz.
18R118/1	⅛ x ¾"	2.48
18R118/2	⅛ x ⅞"	3.18
18R118/3	¼ x 1"	3.53

Lur-All Beetle Bug. Fast selling trout and panfish lure. Bright enamel coloring resembles a live beetle. Made with gold-plated No. 10 Mustad-Viking hook. Packed one dozen.

No.	Color Body	Per Doz.
18R48/1	Orange Spotted	3.53
18R48/2	White and Red	3.53
18R48/3	Red and Green	3.53

H. O. B. Streamer Flies. Under water type with weighted forged streamer hook, double dressed, tied with heavy tackle shoulder, painted eyes, dressed on size 2 highest quality, hollow point, long shank hook. One dozen assorted patterns on display panel.

No. 18R29. Per dozen.....4.94

Streamer Fly Assortment. Well-tied fly with long streamer to give life-like action in water. Assorted patterns made of buck tail, feathers, and combination buck tail and feathers. Dressed on size 8 fine hollow point, long shank hook. Packed each in individual cellophane envelopes. One dozen on display panel.

No. 18R27. Per dozen..... 3.53

Fly Rod Spoons. Small fly rod spoon about 1" long. Weight about the same as a spinner. Equipped with size 10 bronze treble hook. Packaged 15 on display card with easel back.

No. 18R283 Per assort...1.96

Frost Michigan Hoppers. True reproduction of a live grasshopper with reddish long tails, yellow body, mottled brown and gray hackle legs and water-proofed cinnamon turkey wings. Tied on mustad hollow point hooks. Packaged three dozen flies on display panel.

No. 18R40. Per assortment...5.29

Silicote Plasti-Liquid. Excellent quality pre-treating dry fly dressing packaged in new designed applicator bottle for stream dipping. Packaged one dozen in carton.

No. 17R301.
Per doz. ...7.06

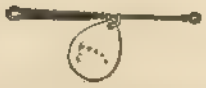
Marathon Baby Popping Minnow Assortment. Durable enameled cork body, dressed on size 10 hollow point forged hook. Hackle and streamer feathers. Packed 1 doz. assorted patterns on display card.

No. 18R56.
Per asst...2.36

Marathon Popping Frog. Well-made lure with enameled cork body and deer-tail hair legs. Made up on size 6 hook in yellow with green spotted back. Packed 1 dozen to display card.

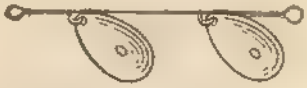
No. 18R57.
Per asst. .4.68

SPINNERS–SPOONS–WEEDLESS HOOKS



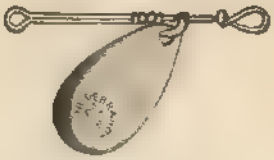
Single Spinners. Carefully designed and well constructed. Made of brass in highly polished nickel plated finish. Mounted on tinned piano wire. Each on card Three dozen in box.

No.	Size	Dozen
18R94	0	.45
18R95	1	.45
18R96	2	.45
18R97	3	.52



Double Spinners. Made of brass with high polished nickel plated finish. Mounted with nickel plated clevis and beads on tinned piano wire. Each on card. Three dozen in box

No.	Size	Dozen
18R99	D0	.66
18R100	D1	66
18R101	D2	.66
18R102	D3	.75



Hildebrandt Single "Standard" Spinners. The original "spin-so-easy" lures. Ball-bearing blades; safety-pin fly changer; smooth to loop tinned or stainless steel shanks. Hand polished blades; spins medium Nickel finish Each on card, packed three dozen.

No	Size	Per doz.
18R201	2/0H	1.06
18R202	0H	1.06
18R203	1H	1.06
18R204	2H	1.06
18R205	3H	1.06

Hildebrandt Double "Standard" Spinners. For rocky water, fishing deep, or trolling. Safety-pin fly changer, smooth top loops; hand polished blade; spins medium. Tinned or stainless steel shanks. Nickel finish. Each on card. Packed three dozen.

No.	Size	Per doz.
18R206	2/0HD	1.76
18R207	0HD	1.76
18R208	1HD	1 76
18R209	2HD	1 76

Hildebrandt "Flicker" Spinners. Fast selling lures for all types of fishing Hollow-point rustproof hooks, hand polished blades Nickel finish Each on card Packed one dozen in display box

No.	Size	Per doz.
18R210	0FL	2 12
18R211	1FL	2 12
18R212	2FL	2 47

Weller "Strip-On" Spinner. Short style Has spoon 1⅛" long, polished nickel out and red enameled inside. Small diameter music wire shaft. Has 2/0 double hook, with an extra 1/0 hook furnished. Will take any size minnow. Length 7⅛". Each on card Packed one dozen

No. 18R213. Per dozen 3.18

Willowleaf Spinner Assortment Gold finish. Supreme in construction, finish, performance The blades are made of thin metal, assuring easiest spinning on a slow retrieve. Assortment contains 4 each size W1G, W2G and W3G packed on attractive counter display panel

No. 18R25.
Per dozen spinners ..1.76

Trolling June Bug Spinner with Glass Beads. Has standard size brass and nickel spoon 36 inch wire, with swivel and hook, split ring hook attachment to give more action Each on card

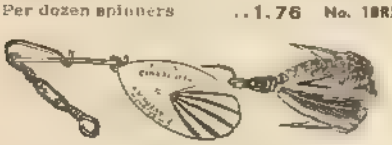
No. 18R231 Per dozen .1.70

June Bug Spinner with 1½ inch spoon having brace to insure free spinning; has swivel and hook, quick change slide-coil, fastener, ornamented with glass beads. Length over-all, 7 inches Six on perforated card

No. 18R229. Gold and nickel. Dozen 1 47
No. 18R230. Red and white. Dozen 1.47

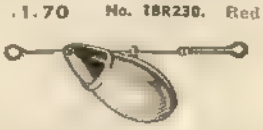
Weller "Strip-On" Spinner, Long Style. Polished nickel and red enamel spoon, 1⅝" long Small diameter music wire shaft. Has 2/0 double hook. Length 3⅝". Each on card Packed one dozen.

No. 18R214. Per dozen . .. 3.18



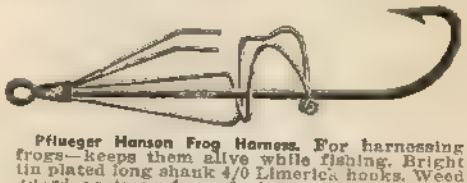
Skinner Fluted Spoon. Nickel plated trolling spoon with feathered treble hooks Packed each in envelope, one dozen to carton.

No	Size	Per dozen
18R261	4	4.24
18R262	6	4.94



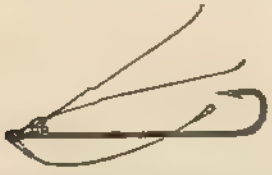
Baby June Bug Spinner with gold and nickel spoon with brace to insure free spinning; has snap for quick change of fly or bait. Made for fly rod or casting rod for bass, trout, etc Six on perforated card.

No. 18R227. Size-spoon ⅛ inch. Dozen....1.05



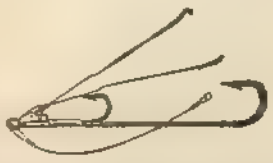
Pflueger Hanson Frog Harness. For harnessing frogs—keeps them alive while fishing. Bright tin plated long shank 4/0 Limerick hooks. Weed guard protects from fouling with weeds and also holds head of frog in proper position Each on card Packed one dozen in box.

No. 18R275. Per dozen 3.54



Stanley Perfection Weedless Hook. The Stanley Perfection is an open hook that's weedless. The weed guard is secured to the hook by a hinge that adapts itself to all conditions. For fishing in lily pads. Used with pork chunk. Packed 1 dozen in box. Dealer 2.88.

No. 18R92. Less 2% net.
Per dozen 2.82



Stanley Pork Rind Tandem. A great killer for short biters; using pork strip on small hook. Strip extending beyond bend of large hook. Size 5/0 Sneck Hook. One dozen in box. Dealer 3.60.

No. 18R105. Less 2% net
Per dozen..... .. . .3.53

Stanley Perfection Spinner. The nickel-plated spinner revolves easily, makes attractive ripple unequalled for skittering. Size 5/0 Sneck Hook. One dozen in box Dealer 3 60.

No. 18R93. Less 2% net.
Per dozen.....3.53

Stanley Weedless Spoon. For same use as Pork Rind Tandem with the addition of a nickel-plated spoon. Ideal for fishing in heavily weeded areas. Size 4/0 Carlisle Hook. One dozen in box. Dealer 4.32

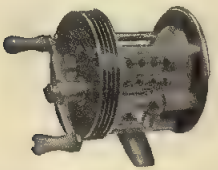
No. 18R91. Less 2% net.
Per dozen.....4.24

FISHING REELS

Langley-Lurecast

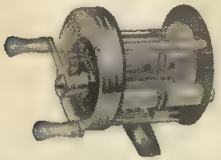
Narrow spool level wind reel for light lines and lures, polished maroon aluminum finish. Diameter of spool 1⅝ in.; width of spool 1⅜ in.; weight 4½ ounces.
No. 330 . . . . . Each $15.00

Langley-Streamlite



Standard level wind reel, polished black alumilite finish, chrome trim. Diameter of spool ⅞ in; Spool width 1⅝ in.; weight 5 ozs.
No. 340 . . . . . Each $12.50

Langley-Lakecast DeLuxe

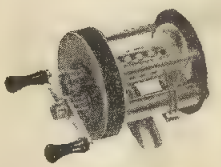


Standard level wind reel, gear box control, polished chrome finish on housing. Diameter of spool ⅞ in.; width of spool 1⅝ in.; weight 6 ounces. Gear assembly completely enclosed in gear box. All working gears can be removed in one unit for oiling
No. 370 . . . . . Each $10.50

Langley Lakecast

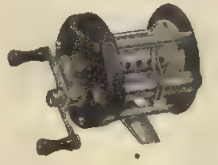
Standard level wind reel gear box control, polished alumilite finish. Diameter of spool ⅞ in.; width of spool 1⅝ in.; weight 6 ounces Assembly completely enclosed in gear box. All working parts can be removed in one unit for oiling.
No. 350 . . . . . Each $8.75

Langley-Castrite



Standard level wind reel, gear box control, grey and black finish, polished trim. Diameter of spool ⅞ in.; width of spool 1¾ in.; weight 5 ounces.
No. 380 . . . . . Each $6.75

Langley-Speedy



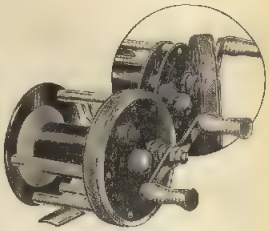
Standard level wind reel, shell shaped housing, black alumilite finish. Diameter of spool ⅞ in., width of spool 1¾ in.; weight 5 ounces.
No. 510 . . . . . Each $6.00

Langley-Shorty

Narrow spool level wind reel, shell shaped housing, black alumilite finish. Diameter of spool 1⅝ in.; width of spool 1⅝ in.; weight 5 ounces
No. 505 . . . . . Each $6.00

Langley-Reelcast

Standard level wind reel, shell shaped housing, natural metallic finish. Diameter of spool ⅞ in.; width of spool 1¾ in.; weight 5 ounces.
No. 500 . . . . . Each $5.00

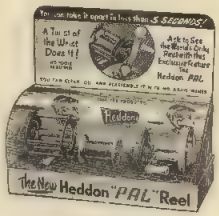


P41 Heddon "PAL" Reel
with the REMOVABLE HEAD RING

The head ring is removed by a simple twist of the wrist, thereby permitting removal of the head plate and spool, giving quick access to all gears and working parts, yet keeping the reel in perfect adjustment. This permits easy cleaning and oiling of all working parts without removing a single screw.

One of the lightest reels made. Featherweight aluminum spool with one-piece cork arbor assures "fast" action and long casts. Capacity 100 yards of 12½ lb. test Pal-on casting line. Matched spiral bronze gears. Anodized aluminum end plates. Quadruple multiplying jeweled spool cups. Adjustable thumb drag.

No. P-41 . . . . . Each $12.50



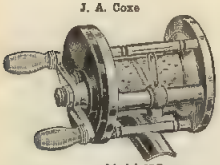
Heddon P-41
"PAL" Reel Display

Display consists of six P-41 reels. One reel is mounted in a display unit with reel demounted to show ease of taking reel apart without the use of tools.

No. P-41-6—Display $75.00

FISHING REELS

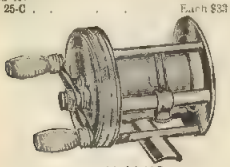
J. A. Coxe



Model 25C

A quality free-spool bait casting reel without an equal for smooth, quiet, easy casting. A lifetime reel guaranteeing top flight performance. Incorporates famous Coxe Cross Bolt, Live Axle, Take-Apart (no tools but your fingers). A positive, non-backlash reel, precision built, the last word in a truly fine casting reel. Quadruple-multiplying with 100-yard capacity.

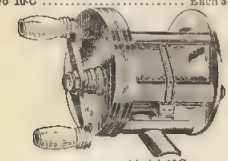
No. 25-C . . . . . Each $33.00



Model 10C

A medium priced, high quality bait casting reel with same Coxe Cross Bolt, Live Axle, Take-Apart construction as Model 25C. Constructed of special high grade brass, beautifully chrome plated. Another champion non-backlash bait casting reel for amateur and professional alike. 100-yard line capacity.

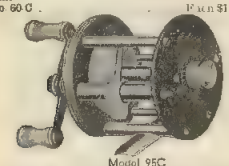
No. 10-C ..... Each $16.50



Model 60C

Here's another Cross Bolt, Coxe design, built to serve those who want the exclusive Take-Apart features at a reasonable price. Equipped with aluminum spool and cork arbor, made of high grade brass, chrome plated. An outstanding, yet reasonably priced 100-yard capacity reel for the thrifty fisherman.

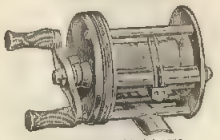
No. 60-C . . . . . Each $11.00



Model 95C

Here's the reel that starts fast, stops easily on every cast. It actually weighs less than 4 ounces, is designed especially for distance casters. Special spring tension spool bearing take-up plate is adjustable to any weight lure. Snap-on plastic arbor with line tie lets you increase diameter of arbor for easier casting with less line. 100-yard capacity.

No. 95-C ..... Each $9.75

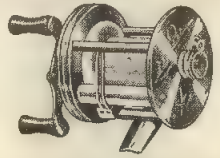


Model 1700

Bronson Leadless

Here's a precision built, beautifully balanced, bait casting reel of superior design and workmanship. Equipped with Drag Tension bearing adjustment for regulating casting speed for varied weight baits. Fine anti-backlash model of 100-yard capacity. New design snap-on plastic spool arbor, furnished with each reel.

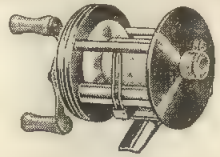
No. 1700 .. Each $7.50



Bronson Mercury (No. 2550)

No more outstanding bait casting reel value on the market. Full 100-yard capacity, beautifully chrome plated, lightweight aluminum spool now standard with Bronson snap-on arbor. Duo-Pawl with 2 spiral and 2 spur gears. Bronson adjustable drag eliminates backlash.

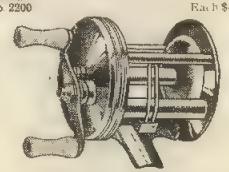
No. 2550 . . . . . Each $5.50



Bronson Green Hornet (No. 2200)

Green anodized aluminum head cap and tail plate. New lightweight spool with snap-on plastic arbor. Duo-Pawl Quadruple multiplying. Adjustable click and 100-yard line capacity. Bronson adjustable drag eliminates backlash.

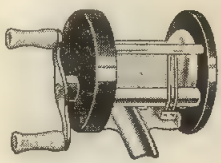
No. 2200 Each $4.95



Bronson Fleetwing (No. 2475)

A full size, 100-yard capacity, level-winding reel built in accordance with Bronson original three-piece construction. Chrome plated brass throughout. Unique Bronson adjustable drag eliminates backlash. Duo-Pawl. Two spiral and two spur gears. Adjustable click.

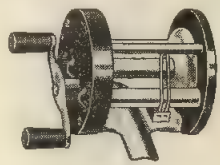
No. 2475 . . . . . Each $3.95



Bronson Altoona (No. 4250)

An ideal reel for the youthful beginner or for that extra general utility reel at summer camp or cottage. Sturdily constructed, bakelite end plates, metal parts nickel plated, 3-piece take-down construction, 100-yard capacity. At a special low price.

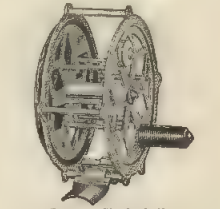
No. 4250 $2.75



Aetna (No. 2300)

Sturdily constructed reel with bakelite end plates. Metal parts are brightly nickel plated. Level winding and adjustable click. Full 100-yard capacity.

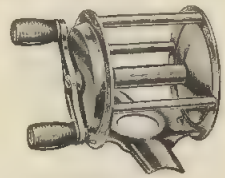
No. 2300 . . . . . Each $2.00



Bronson Single Action

Widely used for both stream and lake fishing, this stout, all-steel single action reel carries 80 yards of line. It is ball burnished, with plates perforated for quick line drying.

No. 1600S Each $1.50



Bronson Arrow Jr.

Low-priced reel designed for the youngster just starting his angling career. Attractively-plated. 80-yard line capacity.

No. 4400 ..... Each $0.45

America's Fastest Selling ANODIZED Aluminum "Hostess-Ware"

COLORAMA Hostess Ware

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- NATIONALLY ADVERTISED

COLORS ANODIZED... Scientifically Fused into the Metal for Everlasting Brilliance

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HELLER Hostess Ware

Guaranteed by Good Housekeeping

521 "Hostess" 5-pc CIGARETTE URN SET. An imported re co of 6 m nature urn and 4 graceful ash trays. Solid brass heavily chrome plated h mirror finish in acetate gift box, 12 to carton. Wgt., 22 lbs
Sug. Ret. $5.00

520 "Hostess" SUGAR, CREAMER and TRAY SET. Beautifully crafted in Italy Solid brass, heavily chrome plated sugar, creamer and tray individ packed, 6 to carton Wgt., 10 lbs.
Sug. Ret. $8.00

522 "Hostess" SALT & PEPPER SET Exquisite imported design crafted in solid brass with rich chromium plated finish Attractively packaged n acetate box 6 to carton Wgt., 10 lbs.
Sug. Ret. $5.00

A 6003 "Hostess" 8-pc. COLORAMA TUMBLER SET
Unbreakable, lightweight 12-oz. aluminum Tumblers Handsomely shaped and smoothly finished Concave bottoms prevent sticking 8 assorted anodized colors, in transparent acetate tube. 12 to carton Weight, 18 lbs. *Sug. Ret. $6.50 Set*

B 6007 "Hostess" 7-pc. COLORAMA BEVERAGE SET
Drinks look better, taste better in this gorgeous Set Stunning 2-qt Pitcher in gold, chartreuse green or red, and 6 beautiful 12-oz Tumblers each in a different anodized color Individ packed 6 to carton. Weight, 18 lbs. *Sug. Ret. $8.00*

C 6841 "Hostess" COLORAMA BIG APPLE ICE VAULT
Smart, novel apple-shaped design aluminum Ice Vault Keeps 2 trays of ice cubes solid for hours Completely insulated with fibre glass. Colors: gold, green, red. Individually packed 6 to carton Weight, 15 lbs. *Sug. Ret. $7.00*

D 6010 "Hostess" 6-pc. COLORAMA-COPPER STEIN SET
Sparkling 12-oz anodized copper Steins are smart for iced or nks, small potted plants, etc Decorative as accessories for dens, recreation rooms, etc Individ. packed, 12 to carton. Weight, 18 lbs
Sug. Ret. $4.00

E 6822 "Hostess" COLORAMA WHISTLING TEA KETTLE
It shimmers! It simmers! It sings! Glamorous anodized aluminum in red, green or copper, with cool black plastic handle and knob 2½ qt size
Sug. Ret. $3.00

F 5001 "Hostess" COLORAMA 2-qt. PITCHER
Charmingly designed aluminum Pitcher in sparkling Colorama colors makes any beverage a party service Gold, chartreuse, green, red Individ packed, 12 to carton. Weight, 13 lbs. *Sug. Ret. $4.00*

G 6002 "Hostess" COLORAMA SERVING TRAY
Beautifully embossed design and scalloped edge make this 14½" aluminum Tray a most striking hostess accessory. Gold, chartreuse, green, red Individ. packed, 12 to carton. *Sug. Ret. $2.75*

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Hostess-Ware America's Fastest-Selling "GIFT" HOUSEWARES

A 1850H "Hostess" CAKE FRESHNER. Guards the oven-freshness of baked goods for days longer, thanks to special humidor cover and the air-lock edge. Rich polished 14" King size aluminum cover and crystal plate. Indiv'd. packed, 6 to carton Weight, 36 lbs. *Sug. Ret. $3.50*

B 5021 "Hostess" 4-pc. CANISTER SET. Set of 4 canisters Flour, Sugar, Coffee, Tea. Matched satin-finished aluminum with black plastic knobs. Individ packed, 12 to carton. Weight, 27 lbs *Sug. Ret. $7.00*

C 5023 "Hostess" 3-pc. RANGE SET. Salt and Pepper shakers with black screw caps. Grease container with black plastic knob. In satin fin sh aluminum. Individ packed, 12 to carton. Weight, 15 lbs *Sug. Ret. $2.60*

D 5027 "Hostess" COOKIE CANISTER Special hum difier In cover keeps cookies pretzels, etc crisp fresh ronger Sparkling two-tone aluminum with black plastic knob Individ packed, 12 to carton. Weight 14 lbs *Sug. Ret. $2.50*

E 5029 "Hostess" 5-pc. POP CORN, SNACK SET. Serves salads fruits, pop corn, potato chips, tidbits candies etc. Large 9½" bowl and 4 individual 6" bowls Aluminum polished to a velvet-soft finish. Individ. packed, 12 to carton Weight, 16 lbs *Sug. Ret. $2.50*

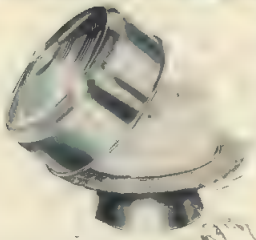
Crafted in Italy

BEAUTIFUL Kitchen

No. 1550 "Hostess" 7-pc. KITCHEN TOOL SET. Complete with hanging rack Beautifully crafted of solid brass and heavily chrome plated to a lifetime mirror finish Set includes Cake Turner, Meat or Pot Fork, slotted Spoon, Potato Masher, Soup Ladle, Spatula. Handles are double riveted and have hang-up hooks. Complete with chromium plated on brass bar for hanging In attractive gift box, 6 to carton. Wgt., 26 lbs. *Sug. Ret. $12.00*

1555 "Hostess" 3-pc. KITCHEN TOOL STARTER SET. Beautifully crafted of solid brass and heavily chrome plated to a lifetime finish Includes 3 most used tools—slotted spoon, meat or pot fork, cake turner. Double riveted handles in colorful gift box, 6 to carton Wgt., 10 lbs *Sug. Ret. $5.00*

940 "Hostess" INSULATED ICE VAULT. Attractively designed In mirror fin sh alum num and complete y insulated with fibre glass. Holds 2 trays of Ice cubes solid for hours. Individ. packed, 6 to carton. Weight, 20 lbs. *Sug. Ret. $6.50*



"Hostess" MUSICAKE PLATE Revolves as it plays "Happy Birthday" or "Anniversary Song" on imported Swiss musical movement Set includes sparkling crystal cake plate and aluminum cover and base.

No	Size	Pkd. to Carton	Wgt.	Sug. Ret.
5100 HB	10½" Standard	12	55	$7.00
5100 A	10½" Standard	12	55	7.00
5300 HB	14" King Size	6	45	8.00
5300 A	14" King Size	6	45	8.00

"HB" "Happy Birthday" "A" . . "Anniversary Song"

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Pony Boy Cowboy Outfits

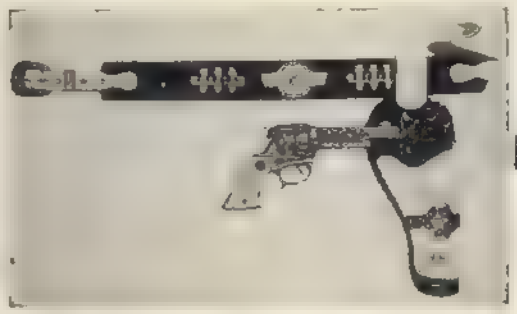
Pony Boy Outfits are famous throughout the toy world. Children love the colorful loud western detail of them. They are "best sellers." Each outfit comes in brightly colored box as shown

Genuine Leather Holster Set. Brown back gold veiled Holster 8½" long. Pocket with embossed "Pony Boy" horse head and nickel spots. Brown belt with gold veiling. 1" wide. Packed complete with Rodeo Gun

No. 22N233. Per Dozen **11.76**

Holster Set Genuine Leather. Black back with silver veiling. 9¾" long. White pocket with black-silver veiled cross tab, nickel rivets and spots. Black belt with silver veiling, white leather cut out. 1" wide. Packed complete with Tex Gun

No. 22N234. Per Dozen..... **18.00**



Holster Set Genuine Leather. Black back with gold veiling. 12" long. White pocket with black veiled cross tab. Decorated with jewels and studs. Black belt with gold veiling 2" wide. Decorated with bullet clips and wooden bullets, star cut out, with gold metallic insert. Complete with Tex Gun.

No. 22N247 Per Dozen..... **26.00**

HOPALONG CASSIDY FLASHLIGHT PISTOL

Black Lustrous Plastic Pistol with handsomely decorated barrel. Pen Type Battery—Magnifying Type Bulb. Easy to change both battery and bulb. Gun Dimensions 8" long, 4" high, 1⅜" wide. Individually boxed.

No. 22N249. Per Dozen.. **5.88**

Genuine Leather Holster Set. Black back with gold pinked trim 10¾" long. Black Pocket with star cut out, gold metallic insert, jewels and gold spots. Black belt 2¼" wide. Decorated with gold bullet clip, red wooden bullets. Cut out gold metallic insert. Jewels and spots. Complete with Gold Plated Texan Jr. Gun

No. 22N248. Per Dozen **34.80**

Genuine Leather Holster Cuff and Spur Set. Contrasting leather trim, jewels and nailheads. Holster 12", belt 1½" Hammered buckle. Holster of top grain leather. Complete with cast metal Texan, Jr. 8-in. Repeater Gun. Individually boxed

No. 22N241. Per Set. **3.75**

Selected Top Grain Cowhide Single Holster and Belt Set with Texan Gun. Leather trimmed, richly tooled embossed Lone Ranger and attractively studded with jewels and nailheads. Holster 11". Belt 3" with Western buckle, loop and tip. Extra jeweled and embossed cross-strap. Individually boxed.

No. 22N237. Each. **3.92**

Double Holster Set. Genuine leather, black back with Pony Boy screening. Holster 12" long. White pocket with star cut out, jewels and nickel spots. Black belt with Pony Boy screening, metal bullet clip, red wooden bullets. Each set in box. With 2 Texan Jr. Guns.

No. 22N238. Each **3.50**

Double Holster Set. Genuine leather. Black back with gold veiling 12" long. White pocket with black veiled cross tab. Decorated with jewels and studs. Black belt with gold veiling 2" wide. Decorated with bullet clips and wooden bullets, star cut out, with gold metallic insert. Complete with 2 Texan Jr. Guns.

No. 22N239. Each **4.25**

POPULAR PRICED

MINIATURE POCKET KNIVES

Razor Knife. Combines durable plastic handle in assorted colors with heavy constructed razor blade. Handy for desk, sewing basket, or first-aid kit. Packed 3 dozen in display box. (No less sold.)

No. 11C36. Per Dozen ..... **OUT**

Midget 1-Blade Charm Knife. With bead key chain. Steel blade, mirror polished. Size closed about 1¾" (including shackle). 2 dozen in package (no less sold)

No. 10C73. Per Dozen ..... **OUT**

"Shorty" 1-Blade Knife. Stainless steel blade full polished. Nickel bolster and shackle with bead key chain. All white celluloid handles. 1 dozen on display card

No. 10C12. Per Dozen..... **3.90**

"Tiny Champ" Miniature Jack Knife. Size closed 2" sturdily built 2 blades mirror polished, brass liners, assorted colored handles with bright polished cap and bolster, shackle for chain. 1 dozen on display card assorted colors

No. 10C128. Per Dozen..... **3.92**

Miniature Hunting Knife with Leather Sheath. Length overall 3⅝ inches. Blade mirror polished. With compo-pearl celluloid handle. Each with leather sheath. One dozen in box

No. 10C118. Per Dozen..... **3.92**

Bowling Pin Charm Knife. Size closed 2 inches. Assorted celluloid handles, polished tips. One blade mirror polished. Flexible bead chain with clasp. One dozen on card.

No. 10C49. Per Dozen..... **3.92**

Novelty Key Knife. (Actual size shown.) Size closed 1¾". 1-blade, mirror polished bright finished metal, neatly in shape of key with bead key chain and plastic tag in shape of lock. Perfect for personal purse. 1 dozen on display card

No. 10C124. Per Dozen..... **3.92**

Art Charm Knife. 1 blade, mirror polished, transparent handle with reproduction of photographic art picture on both sides, assorted subjects. Brass lined with brass tips. Complete with bead key chain. Size closed 2⅛". Packed 1 dozen on attractive display card

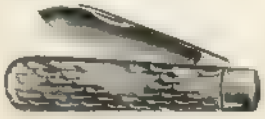
No. 10C7. Per Dozen **3.15**

Miniature 1-Blade Cross-Bar Dagger Knife. Made with fancy nickel silver. Assorted color Pyralin handles each with shackle. Chain. Blade. Length closed 2". 1 dozen on display card

No. 10C101. Per Dozen..... **3.92**

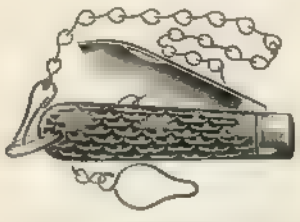
Jack-O-Matic "Junior" Miniature Push-Button Knife. Size closed 2¾". Trade under Stroud Walder patents. One blade mirror polished, simulated pearl handle, nickel polished bolsters and shackle with bead key chain. Pocket gift box. 1 dozen in carton (No less sold)

No. 10C119. Per Dozen..... **7.80**



Boy's 1-Blade Knife. Simulated stag metal handle. Spear-point blade. Length closed 3". 1 dozen in box.

No. 10C97. Per Dozen..... **2.35**



Boy's 1-Blade Knife with Chain. Spear-point blade. Simulated black stag metal handle with 14" link chain, cadmium plated. Length of knife closed 3". 1 dozen in box.

No. 10C96. Per Dozen..... **2.65**

POPULAR PRICED

POCKET KNIVES

Novel—Fast Selling—Useful

To Open

To Close

Trick Knife. Can be opened only when blade is held upward and pressed forward by finger. To close, turn knife blade down and press with finger. Single blade mirror polished in celluloid handles with full nickel type bolsters. Size of knife closed about 3⅛ inches. One dozen on card

No. 10C15. Assorted colored handles.

Per Dozen **4.35**

No. 10C10. All white handles.

Per Dozen **4.35**

2-Blade Jack Knife. Serpentine style. Clip and spear blades. Full mirror polished. Brass lined. Size closed 3⅛ inches. Assorted color celluloid handles. 2 dozen in box (no less sold)

No. 10C70. Per Dozen **2.00**

Art Knife. 2 blades, mirror polished, transparent handle with reproduction of photographic art picture on both sides, assorted subjects. Size closed 3⅛". Brass lined with polished brass tips. Packed 1 dozen on attractive display card

No. 10C5. Per Dozen..... **3.75**

Hol-le toys

SITTING BUNNY
#E-07C to retail about 1.00
#E-117C to retail about 1.50
#E-217C to retail about 2.00

RUNNING BUNNY
#E-08C to retail about 1.00
#E-118C to retail about 1.50
#E-218C to retail about 2.00

now!

our big selling **bunnies** in a bright new pattern!

circus dots

. . . they're gay! . . . they're original! . . . they're eye-catching! Be first in your city to introduce Hol-le's famous, lovable bunnies in bright red and green CIRCUS DOTS to spark your Easter volume plans. Right now is the time to act "quick like a bunny", too . . . because this Easter is the earliest in more than 100 years . . . March 25th!

CROUCHING BUNNY
#E-09C to retail about .00
#E-119C to retail about .50
#E-219C to retail about 2.00

Hol-le soft plastic animals and dolls combine high style design with the finest quality materials and painstaking workmanship. They are sanitary, stain resistant and durable.

BEGGING BUNNY
#E-010C to retail about .00
#E-120C to retail about 1.50
#E-220C to retail about 2.00

NATIONALLY ADVERTISED IN PARENTS' MAGAZINE

Send for our catalogue sheets of other Hol-le soft plastic animals and dolls to retail about 1.00 to 4.00.

Showroom

200 Fifth Avenue, New York 10, N. Y.

Factory

148-150 Post Avenue, N. Y. 34, N. Y.

NATIONALLY
ADVERTISED IN
PARENTS' MAGAZINE

Whoa!

you don't have to work like a horse
when you have Hol-le's new

pull-pony

pulling for you!

U. S. Design Pat. 153709

Now . . . the famous Hol-le pony moves even faster . . . on rubber-tire wheels! Same fine quality plastic and workmanship as before. Washable, colorfast, durable and stain-resistant. Won't crack or peel. Approx. 13" high.

515-W: Assorted colors to the dozen, red, blue, black.
515-G: Red and white "gingham" checks.

To retail about $4.00

Send for catalog sheets of other Hol-le soft plastic animals and dolls to retail about $1.00 to $4.00

Hol-le toys

SOFT PLASTIC ANIMALS & DOLLS
Factory: 148-150 Post Ave., New York 34, N. Y.
Showroom: 200 Fifth Ave., New York 10 N. Y.

Top Favorites in the Doll Family

BETSY WETSY DOLLS WITH VOICE

America's most popular dolls—they act and look like a baby! Real lifelike in action—they drink from a bottle, wet, and sleep. Movable plastic head and arms, sleeping eyes. They can be bathed and powdered like a real, live baby. Made from soft, durable rubber. Dolls that capture the imagination of every little Miss and promote volume sales.

Betsy Wetsy Coca Doll in Suitcase. This darling 12" tall baby girl doll goes traveling in a modern suitcase. Suitcase is made of heavy pressboard covered to resemble smart airplane traveling case with gleaming hardware. The layette consists of: Cream de dress and hat, petticoat, 2 diapers, 4 safety pins, 3 puffs, shoes and stockings, plastic plate and spoon, bottle and nipple. Betsy Wetsy is dressed in a shirt and diaper. 12" tall. Individually boxed. Ship. wt. 3 lbs. Retail $8.00.*

751R17—Each $5.85.....$5.35

Betsy Wetsy with Layette. (Not shown.) A 12" tall baby girl doll with voice that will give outstanding play value to any little Miss. She can feed her a bottle, then completely dress the doll in her charming outfit. Layette consists of: Print dress, hat, 2 diapers, 4 safety pins, 3 puffs, shoes, and sox. Doll itself is dressed in a shirt and diaper. Complete with bottle and nipple. 12" tall. Individually boxed. Ship. wt. 2 lbs. Retail $6.00.

751R18—Each $4.20.....IN LOTS OF 3, EACH $3.95

Clovia. (Not shown.) This 12" tall, versatile red haired Clovia is famous as Skeezix Wallet's daughter in "Gasoline Alley." She is a 7-in-1 doll with magic skin. She cries when she is hit, coos when hugged. Her blue eyes close in sleep. She drinks from her bottle and wets like a real live baby. Has a four-leaf clover birthmark on her left hand. Clovia is dressed in a floral kimono and is holding a bottle in her hands. 12" tall. Individually boxed. Ship. wt. 2 lbs. Retail $6.00.

751R19 ....EACH $3.95

BEAUTIFUL BRIDE DOLL

This lovely 18" bride doll wears exquisite bridal gown of embossed cloth with a high sheen finish. Delicate lace trimming around neck, sleeves, around bottom and center of skirt. Beautiful matching headpiece. Lustrous, human-like hair set in a soft, pretty wave. She has sleeping eyes, movable head, arms and legs—all with excellent detail right down to her fingernails. She is completely outfitted in slip, panties, socks, and shoes all in White. She holds bridal bouquet with trailing White ribbons. Ship. wt. 4 lbs. Retail $10.95.

751R22 .....EACH $6.95

IN LOTS OF 3, EACH $6.65

HOPALONG CASSIDY

Colorfully costumed "He Man" of the West—24" high. This hard hitting, 2-gun Sheriff is America's greatest Western star. Molded Vinyl plastic face and head with excellent painted facial details and White painted hair. Cloth body, cotton stuffed. **Dressed in authentic Hopalong Cassidy costume consisting of:** Black felt sombrero, Black satin shirt, Black cowboy pants with fancy leather belt trimmings, one gun and holster. Black and White cowboy boots. Individually packed. Ship. wt. 3 lbs. Retail $8.00. **GE GE**

751R50.....EACH $5.65

IN LOTS OF 3, EACH $5.35

ALL PRICES WHOLESALE NET, LESS 2% DISCOUNT FOR CASH

MUSICAL DOLL

With Tinkling Music Box in Back!

A winsome, chubby baby girl doll with concealed music box that plays a merry tune when wound. It's a wonderful, fascinating toy for any child. This sweet-faced, adorable doll is **most appealing to the particular child even without the music feature—so think what a seller it will be with it! Large 17" size.** Rubber arms and legs, cotton stuffed body. Unbreakable plastic head. Charmingly dressed in a frilly organdy dress and bonnet, shoes, and stockings. The fine imported Swiss music box is set inside the doll's body. Key-wind in back. Ship. wt. each 3 lbs. Retail $8.00.

751R12.....EACH $5.35

BABY BEAUTIFUL WITH MOHAIR WIG

A lovely baby doll human in appeal, excellent in quality. Represents the utmost in workmanship, design, and needlework. Head, arms, and legs of the finest, hard-to-break composition. Cotton stuffed body. Beautifully dressed in sweet organdie, exquisitely trimmed, with lace ribbon or embroidered designs. Bonnet to match. Shoes and stockings. Glaze sleeping eyes with lashes. **Crying voice. 18" size.** Individually boxed. Ship. wt. 3 lbs. Retail $8.00.

751R18.....EACH $5.35

TRIMALETTE DOLL BATH

The little girl size replica of the famous full size Trimalette Kiddie-Bath by Trimble. **Exactly ½ the size of the large model.** Constructed of satin-finish aluminum, its spy appeal is enhanced by contrasting Pink and Blue Vinylite sheeting for the tub, hammock, soap pocket, dressing table, safety strap and six-section pockets—all easily cleaned. Etched aluminum utility tray for doll's undies and powder. **Attractive circus parade decoration on table top.** Tub has drain hose with shut off clamp. 23½" height, 24" length. 25"x 12½" dressing table. 20¼x7¼" utility tray. Folds. Ship. wt. 6 lbs. Ind. packed.

759R27—Each $5.85, LOTS OF 3, EACH $5.20

CATALOG

of fast-selling

FISHING TACKLE

supplied you by

Bristol

THE HORTON BRISTOL MFG. CO.

Again this year BRISTOL sets the pace with a wide variety of value-leading fishing rods, reels and lines to help you attract more sales, increase profits. You're sure to find exactly the tackle your customers like best among the popular BRISTOL offerings featured on this page. Be forehanded . . . and send in your orders now.

BRISTOL ROD SELECTION

Steel Telescopic Rods .....Round and Hexagonal
Bait Casting Rods.. Made in both Glass and Steel
Fly Rods.....Made in both Glass and Steel
Spinning Rods.....Made in both Glass and Steel
Trolling & Boat Rods . Made in both Glass and Steel

BRISTOL REEL SELECTIONS

Electromatic Bait Casting Reel
Single Action Fly Reels
Spinning Reels
All-Purpose Reel*

*designed especially for use with Telescopic Rods

BRISTOL LINE SELECTIONS

BAIT CASTING LINES

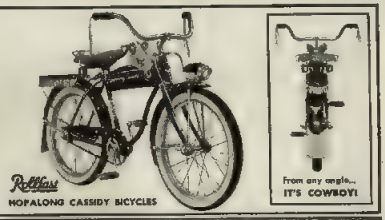
(A) Waterline, (Nylon), made in five color blends to match the water.
(B) Bristol Certified, (Nylon).
(C) Bristol Black Wonder, (Silk).

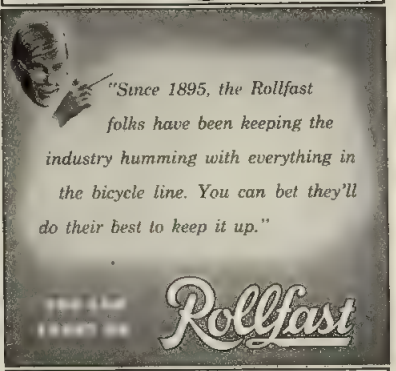
FLY LINES . . .(Made in both Nylon and Silk)

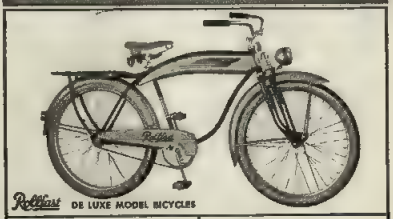
(A) Level Lines, Sizes H to C.
(B) Tapered Lines, both Double and Torpedo.

See BRISTOL'S Fishing Tackle Catalog For Complete Details... Or Ask Your Jobber

The Horton Bristol Manufacturing Co., Bristol, Conn.




"Since 1895, the Rollfast folks have been keeping the industry humming with everything in the bicycle line. You can bet they'll do their best to keep it up."
Rollfast



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Now occupying spacious

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...invites your consideration

of the 1951 line of

america's best-known and best-loved dolls

horsman dolls, inc.—200 Fifth Ave., N.Y. 10, *Factory:* Trenton, N. J.

dolls

PLATFORM SCALES

HOWE PORTABLE

Double Beam

Ball bearing construction. Solid bronze beams. Both bars graduated 100 lbs. by ¼ lb. Lower bar poise has bronze set screw and may be used for tare. Blue finish, bronze striped.

Nos.	**54X**
Capacity, lbs.	1000x½
Platform, in.	17x20
Shipping wgt., lbs.	230
Each	$125.00

One in a box

A ball bearing scale of sturdy construction. Solid bronze single beam, poise and set screw. Blue finish, with bronze stripe. All iron work durably finished in black. Solid iron platform.

Nos.	**54**
Capacity, lbs	1000
Graduated, lbs.	100x½
ODODPlatform, in	17x26
Ship wgt., lbs.	280
Each	$142.00

One in a box

SCALE WEIGHTS

For Platform Scales

Pounds	50	100	200	300
Each	$0.60	.80	1.00	1.40

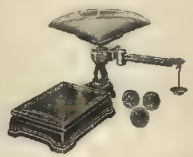
PLATFORM SCALES

American

Equipped with single beam, graduated 50 lbs. by 1.2 lbs. Size platform 18"x26".

No. 48—500 lbs. capacity	Each $95.00
No. 50—800 lbs. capacity	Each 88.00
No. 51—1000 lbs. capacity	Each 104.00
No. 52—1200 lbs. capacity	Each 105.00

JACOBS



Hardened bearings and tool steel pivots. Corner loops of double suspension pattern with steel links secured to base. Arrow pattern solid brass beam. Black enamel finish, trimmed in red and gold. With tin scoop. Platform 10½x14 in. Beam graduated 5 lbs. by ½ oz. for the scoop, and 50 lbs. by ¼ lb. for platform. With sliding poise, and one 5/10 weight and two 1/10 weights. Total capacity: Scoop 50 lbs.; platform 300 lbs.

No. 4450—Wgt. 50 lbs. ..... Each $54.00

One in a box

COUNTER SCALES

EXCELSIOR

Brass beam with graduations on both sides, 1½ lbs. by ½ oz. Notched for hanging poise. Vermilion finish with gold bronze stripes. Tin scoop, 9½x16 in. Capacity 26 lbs. by ½ oz.

Excelsior—Wgt 10½ lbs. ..... Each $28.00

EVEN BALANCE SCALES

HOWE

Patent frame and weights, beveled bronze side beam, horns rubber tipped.

With Brass Scoop

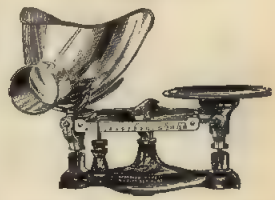
No	Capacity	Shipping Wgt., Lbs.	Each
382	16 lbs. by ¼ oz.	70	$80.00
386	10 lbs. by ¼ oz.	46	66.00
390	6 lbs. by ⅛ oz.	27	54.00
394	2 lbs. by ⅛ oz.	18	47.00

With Tin Scoop

384	16 lbs. by ¼ oz.	70	72.00
388	10 lbs. by ¼ oz.	46	60.00
392	6 lbs. by ⅛ oz.	27	50.00
396	2 lbs. by ⅛ oz.	18	43.00

One in a box

JACOBS



U-shaped steel bearings, steel pivots, brass beam, rubber tips.

With Brass Tunnel Scoop

No. 801TB—Capacity 16 lbs. by ¼ oz.	$58.00
No. 802TB—Capacity 10 lbs. by ¼ oz.	44.00
No. 803TB—Capacity 8 lbs. by ¼ oz.	35.00
No. 804TB—Capacity 4 lbs. by ¼ oz.	30.00

One in a box

Can be furnished to weigh in ⅛ ounces

ELECTRICITY ABOARD YOUR CRUISER

(*Continued from page* 105)

control switches for running lights, blower, horn and cabin lights are generally spliced into the wires going to these devices.

Now this is vital to the success of your plan. Carefully mark or code each existing splice and wire by wrapping a small piece of adhesive tape about it, marked with the name of the device or switch served, e.g., port running light, cabin light, horn and horn button, blower switch, fuse, etc. Employ an indelible pencil or waterproof India ink and use abbreviations e.g., R L PT for port running light etc. and then, after application to the wire coat with a waterproof lacquer such as Ignition Seal, or clear lacquer. This will permanently identify your wires, not only facilitating the rejuvenation of the distribution system but any future repairs, should they become necessary. Figure 2 does not pretend to be complete but is included to indicate a few of the locations where spliced joints might be located. This crowded 5 by 4 by 2½-inch junction box was eliminated.

Next in order is the tabulation of every light and outlet and current consuming device aboard your boat. Table II indicates the current (amperes) consumed by each and the wattage. The watts consumed can be obtained by multiplying amperes by the voltage of your system. If you have more than one circuit, note the circuit serving each device.

How should your new circuits be determined? In general, no circuit should carry more than about 300 watts (25 amps at 12 volts). On 6-volt circuits, it is best practice to also limit the lighting circuits to 25 amps. The circuits should be segregated for convenience of control. If your running lights, cabin lights and horn are included on one circuit, then, if trouble arises, for example on the horn branch, it would necessitate throwing the breaker which controls the entire circuit, thus "killing" the cabin and running lights. Hence cabin lights, running lights and horn should be on separate circuits controlled and protected by individual switch-type circuit breakers. The author's original and revamped circuits are shown in Table I. The arrangement was dictated by convenience of control, power requirements, ease of change over from the old to the new system, minimum number of splices and most direct wiring. Any other systematic arrangement would prove equally satisfactory.

Having completed your "circuit table," you are in a position to determine the current drawn by each circuit by totaling current consumption of all lights, motors, etc. on the circuit and to check your wire sizes. To assist you, Table II, based on SAE recommendations has been prepared for 6-volt operation. Make certain your wires are of adequate size, allowing for a load of 20 per cent in excess of that determined from your "circuit tabulation." Never use wire smaller than #16 gauge. For 12-volt operation, the next size smaller wire than tabulated for 6 volts might be employed. Oversize wires are beneficial while wires of inadequate size are a source of danger and inefficient operation of the electrical devices due to excessive voltage drop.

While on the subject of voltage drop, remember that a corroded spot or connection will cause a voltage drop as well as heating, even to the point of fire danger. The drop in voltage (voltage at battery *minus* voltage at device served) should never exceed .5 volt for a 6-volt system. The desirability of employing a 12-volt system cannot be overemphasized. Some voltage drop due to resistance of the wire and joints is unavoidable. A drop of .05 volt on a 6-volt system reduces the efficiency of the lamp over 1 per cent, while the same drop on a 12-volt circuit only reduces the efficiency about 8 per cent. At all events, adhere to the Underwriters' allowable current-carrying capacity of wires. (Table III)

Materials Required

When you have decided upon the location of the switchboard and the circuits and determined the current load on each circuit, you are ready to order your materials.

You will probably require wire of various sizes. Wherever possible, employ lead-sheathed twin-conductor cable. It will protect the wire from moisture and physical damage. The circuit current table (Table I) and your circuit diagram should serve as a guide to the size and footage of wire you will require. Secure an adequate quantity of insulated staples and cable straps.

One small circuit breaker is employed for each circuit, allowing for several spare circuits, and one large breaker (120 amps) for each bank of batteries, also one 60-amp breaker for your generating plant. The writer has found that the most suitable circuit breakers are the aircraft thermal type such as manufactured by the Spencer Thermostat Company under the trade name of Klixon switch-type circuit breakers. (Figure 3) They are safe, compact,

PROVIDING A POSITIVE NEUTRAL

(Continued from page 48)

shaft stands still My wife, who usually brings our boat to the club mooring while I handle the boat hook from the forward cockpit, has found our boat much more easily operated since I equipped the engine with the device here described. Some readers will remember the tendency of the model T Ford with planetary transmission to roll unless the brake was tightly set

On the opposite side of the gear from which the extension shaft carries the linkage forward to the reverse gear lever on top of the steering wheel box I have fastened, by means of a set-screw, what corresponds to an eccentric. I made this out of an ordinary intermediate propeller shaft bearing, available at most marine hardware dealers. The cross shaft on my engine is ⅜-inch diameter, which is a standard for this type of bearing. The usual tapped hole for a grease cup, I retapped for a set screw which allows me to adjust the eccentric anywhere on the shaft horizontally or circumferentially on the cross shaft. I then cut off one side of the bearing, down to the outside diameter and cut off the other side just inside the hold-down bolt hole. After dressing off the remaining metal with a file I had a good job of a sleeve with an ear to it. See figure 4

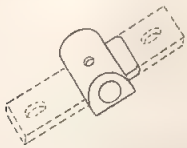
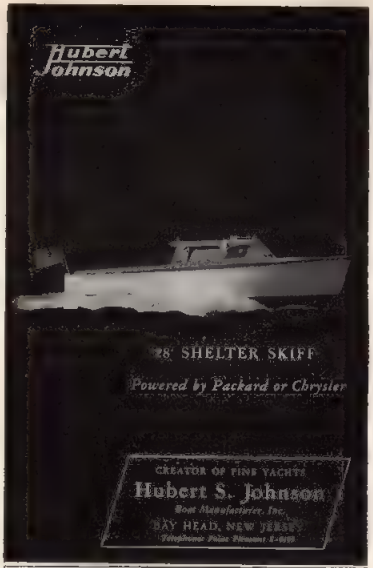


Fig. 4 (above): Bronze intermediate shaft bearing showing portions cut off (indicated by dotted lines)

Fig. 5 (above): Spring, attaching to the engine bed, to engage the lug on the shaft extension

The next step was to make a light spring with a notch in it that would ride up over the ear and not offer so much friction that the reverse gear would operate perceptibly harder at the steering station.



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LONG ISLAND CITY 1, N. Y.

MOTOR BOATING'S Prize Contest

Each month MoToR BoatinG awards a prize for the best answer to a question on practical boating problems. In this department readers have an opportunity to exchange helpful ideas drawn from their own experience.

QUESTION FOR APRIL CONTEST

Describe and illustrate methods for locating and remedying leaks in a boat's bottom.

Rules

Prizes: For the best answer to the question above, winner may select any article or articles sold by an advertiser in the current issue of MoToR BoatinG, of which the retail price does not exceed $25.00. If the retail price of the article selected exceeds this amount a credit of $25.00 will be allowed.

If the winner of the prize prefers, he may be awarded a $25.00 Savings Bond, instead of the merchandise prize.

MoToR BoatinG reserves the right to select the advertiser from whom such prize awarded shall be purchased. All details connected with the ordering of a prize selected by winners must be handled by MoToR BoatinG. Selection of a prize MUST be made within 90 days of date on which winner is notified of award

Space rates are paid for answers we print that do not win a prize.

Questions. Readers are invited to submit suggestions for questions to be answered in this department in future issues.

Answers submitted should be sent to the Editor MoToR BoatinG, 572 Madison Avenue, New York 22, N. Y.

Answers for the APRIL issue must be
(a) in our hands on or before February 28.
(b) about 500 words in length.
(c) accompanied by the sender's name and address. Names will be withheld and initials published.

New PERKO '51 Models

ALCOHOL STOVE BAKED ENAMEL FINISH

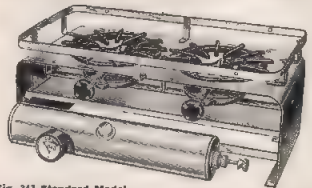


Fig. 247 Standard Model
A new lower priced model using same well known all bronze PERKO alcohol burners. Small, compact but plenty of room for necessary cooking utensils.
WRITE FOR DESCRIPTIVE LITERATURE

AUTOMATIC ELECTRIC BILGE PUMP

Fig. 724. Will operate completely submerged. Water cannot enter motor housing. Only 4¾" high for limited spaces. Tested for over 6 months with excellent results.
WRITE FOR DESCRIPTIVE LITERATURE

PERKINS MARINE LAMP & HARDWARE CORP.
1941 PITKIN AVENUE BROOKLYN 7, N. Y.

Osco THE WORLD'S MOST FAMOUS AND BEST MARINED® ENGINE Available!

FORD MARINED® ENGINES & CONVERSION PARTS FOR ALL POPULAR FORD & JEEP ENGINES

For the best, most dependable power at ½ to ⅓ the cost—get the proved facts about OSCO conversion parts. Ask us all questions answered.

SEND FOR Free Catalog TODAY

OSCO MOTORS CORPORATION
3-027 N. LAWRENCE STREET
PHILADELPHIA 00, PENNA.

Hinckley Roustabout RIDES LEVEL AND DRY AT ALL SPEEDS

20' Motor Launch, bottom, bronze fastened, 45 h.p. marine engine

HENRY R. HINCKLEY & COMPANY
SOUTHWEST HARBOR, MAINE

• rugged and versatile
• thrives on hard work
• revels in rough going

America's foremost builder of auxiliaries, including the Hinckley 21, the Sou'wester, and the Hinckley-built—Owens Cutter. Write for illustrated brochure.

This was accomplished by annealing one end of a piece of half-hard brass strip so that I could work it with the usual bench tools of a home workshop. Sketch 5 will make plain the shape of this piece. This part of the job is considerably simplified if a pattern is made from a strip of thin copper—flashing copper is about right, or sheet lead may be used—bending it to shape. It is necessary to avoid getting too much spring into it, but a piece of ⅛-inch brass 1¼-inches wide seemed about right in my case. This piece I made long enough to accommodate two slotted holes so as to give a fore-and-aft adjustment. Then I attached this to the engine bed in such a position as to make it ride easily over the hump on the eccentric when the reverse gear is thrown from forward to neutral to reverse or vice versa.

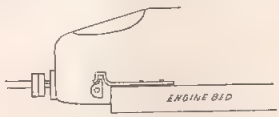


Fig. 6 (above): C. L. N.'s sketch of his device, with spring engaging the lug in the neutral position

Now it only becomes necessary to do a bit of experimenting to find the best adjustment of the component parts of the device to insure a positive neutral position of the clutch, then tighten down all bolts and the set screw. You'll be pleasantly surprised at what a difference this makes in the ease of operation of your power plant.

It should, of course, be remembered that a gear in perfect adjustment has no drag to it, but not all gears after use retain that desirable characteristic. Some are better than others, but one of the better known former boat builders of quality craft, found it so important to stop creep in twin-screw installations that they devised something to accomplish this. Mine is a simple adaptation of this principle. If the clutch discs are in bad condition, burned or roughed up, or the drum brake is not in proper adjustment the device described won't work to the best advantage, but it will work even under those adverse conditions. Some engines do feature a positive neutral.

One further sketch is offered in case all is not clear to the reader. Winter is a good time to get busy at the bench and get out the fittings.

C. L. N., Port Washington, N. Y.

☆ ☆ ☆

WHAT'S WRONG WITH THIS PICTURE?

Giles M. S. Tod, familiar to many MoToR BoatinG readers as the author of numerous articles on subjects relating to the old wind jammers, has called our attention to the illustration of ratlines appearing in the Nautical Dictionary of the current edition of Piloting, Seamanship and Small Boat Handling.

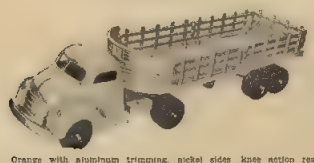
Though conceding the excellence of the illustrations from an artistic point of view, Mr. Tod points out what he regards as a technical error. It's bad practice, he explains, for a sailor to go aloft with his hands on the ratlines. He should grip the shrouds. If a ratline snapped under his weight, while holding on to a ratline, the one he held might also let go. A serious fall would probably be inevitable. If he grips the shrouds, he has something secure to hang on to, even though the ratline under his foot gives way.

RIVER BOAT DIESEL-POWERED

Loading at Camden, New Jersey, Farrell Lines' 123-foot river cargo carrier Cestos recently made an ocean crossing to Monrovia, Africa. She will transport baled and liquid rubber from jungle plantations to African coastal shipping points. Although designed exclusively for river travel, Cestos completed her ocean voyage uneventfully in 30 days. The boat has a draft of 4½ feet light, a beam of 28½ feet and is powered by two General Motors 6-cylinder diesel engines. She was designed by Sparkman and Stevens, New York, and completed last October at John H. Mathis Shipyard at Camden, New Jersey.

Hubley

Stake Truck



Orange with aluminum trimming, nickel sides, knee action rear wheels, retractable trailer support. Sides can be removed to make flat bottom truck. Black rubber wheels.

Stock No.	Mfr's. No.	Lgth. In.	lb Doz.	Cat. List EACH
4H 2185	563	17½	28.	$5.15

One in a box. One dozen in a carton.

Motorcycle Cop

Red with aluminum trimming. Black removable cop. Black rubber wheels.

Stock No.	Mfr's. No.	Lgth. In.	lb Doz.	Cat. List EACH
4H 2186	479	8½	20	$1.80

One in a box. One dozen in a carton.

Farm Set

Five assorted farm toys to a set: tractor, plow, disc, spreader and farm wagon. Toys painted red with aluminum and nickel trimming. Rubber wheels. One set in a box.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 2199	50	48	$3.30

One-half dozen sets in a carton.

Farm Set

Plastic farm set consists of—No. 322 Tractor, Cultipacker plastic farm wagon.

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
4H 2384	4	1	$1.10

One set in a box. Twelve in a carton.

Log Truck

Plastic construction. Tractor chassis bright metallic plastic. Cab lifts off revealing detailed V-8 motor. Bottom enclosed. Equipped with trailer hitch. Cab and trailer bright orange plastic. 12 smooth dowel logs loaded on the trailer complete with chain. Dolly wheels lock in position when swung down. Rear wheels have independent suspension. Black rubber wheels. Dual on rear of tractor and trailer.

Stock No.	Mfr's. No.	Lgth. In.	lb Each	Cat. List EACH
4H 2390	356	12½	1½	$1.60

One set in a box. Twelve in a carton.

Lift The Hood Truck Set

Plastic constructed truck set consists of four trucks No. 322 Dump, No. 323 Wrecker, No. 324 Fire, No. 327 Telephone Truck.

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
4H 2382	65	1½	$2.15

One set in a box. Twelve in a carton.

Road Building Set

Plastic construction. Set consists of three items, No. 315 Road Roller, No. 316 Road Scraper, No. 316 Flat Bed Truck.

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
4H 2383	60	1⅓	$2.20

One set in a box. Twelve in a carton.

Motor Transport

Red plastic cab and trailer with bright trimming. Cab lifts off completely, exposing red accurately detailed V-8 engine. Bright metallic plastic chassis, radiator grille and gas tanks. Trailer hitch on rear. Chassis enclosed. Detachable trailer 9⅛ inches long carries four plastic Cadillac cars, which can be driven off and on trailer over removable plastic ramp. Ramp hooks into trailer. When not in use is carried out of sight underneath. Toy cars are four inches long. Colors, yellow green cab and top, with bright aluminum trim.

Stock No.	Mfr's. No.	Lgth. In.	lb Each	Cat. List EACH
4H 2387	353	13½	1.	$1.80

One set in a box. Twelve in a carton.

Motor Express

Plastic construction. Tractor chassis bright metal finish with red cab. Cab lifts off revealing detailed V-8 engine. Bottom enclosed with realistic chassis details. Trailer has open rear permits easy removal of trailer. Trailer has bright green body with red chassis. Side door slides open, four heavy swivel rear wheels swing down and lock when trailer is unhitched. Rear wheels have independent wheel suspension. Black rubber tires. Dual wheels on rear of tractor and trailer.

Stock No.	Mfr's. No.	Lgth. In.	lb Each	Cat. List EACH
4H 2388	352	12½	1½	$1.80

One set in a box. Twelve in a carton.

Earth Mover

Plastic construction. Yellow and red combination. Dump body can be unhitched. Throwing lever at rear opens bottom boards, emptying load. Black rubber wheels, spare behind driver's seat.

Stock No.	Mfr's. No.	Lgth. In.	lb Each	Cat. List EACH
4H 2389	354	14	1⅓	$1.60

One set in a box. Twelve in a carton.

Courtland

Mechanical Truck Assortment

Courtland

Substantial steel and aluminum construction. No sharp edges. Enclosed motor easily removed for replacement. 1½ in. rubber wheels. Lithographed in brilliant colors. Assortment consists of 6 No. 3300 stake trucks, 6 No. 3100 dump trucks. Overall size: length 7⅞ to 9 in. height 3¼ in., width ⅞ in. Packed in individual boxes.

Stock No.	Mfr's. No.	lb Dis.	Cat. List EACH
4H 2169	3800	8	▲$10.80

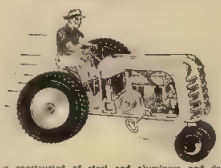
One dozen in a carton

Mechanical Trailer Truck Assortment

Substantial steel and aluminum construction. No sharp edges. Enclosed motor easily removed for replacement. ⅛ inch rubber wheels. Lithographed in brilliant colors. Assortment consists of 3 No. 2000 gasoline trucks, 3 No. 2100 hook and ladder, 3 No. 2200 log trucks, 3 No. 2300 open vans. Overall size: length 13 in., height 3¼ in., width 3¼ in. Packed in individual boxes.

Stock No.	Mfr's. No.	lb Dis.	Cat. List EACH
4H 2168	2800	12	▲$13.50

Mechanical Tractor



Tractor is constructed of steel and aluminum and designed just like the real thing. Has rubber tires. Enclosed motor spring. Lithographed in brilliant colors.

Stock No.	Mfr's. No.	Inches Lgth.	Inches Ht.	lb Doz.	Cat. List EACH
4H 2164	6000	6	3½	2	$0.85

Town and Country Car

Modern design of the newest cars on the road. Constructed of steel and aluminum. No sharp edges. Has enclosed motor. Lithographed in brilliant colors.

Stock No.	Mfr's. No.	Inches Lgth.	Inches Ht.	lb Doz.	Cat. List EACH
4H 2161	4000	6½	3	6	$0.60

Taxi-cab

Same design and construction as above

Stock No.	Mfr's. No.	Inches Lgth.	Inches Ht.	lb Doz.	Cat. List EACH
4H 2163	4000	6½	3	6	$0.60

Fire Chief

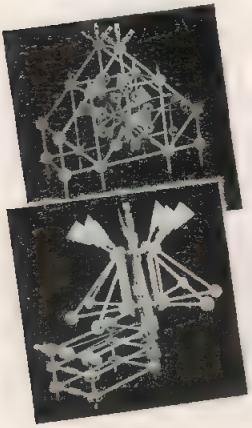
Stock No.	Mfr's. No.	Inches Lgth.	Inches Ht.	lb Doz.	Cat. List EACH
4H 2162	4000	6½	3	6	$0.60

All above one dozen in a carton.

▲ We do not break cartons

HUBLEY
room 324
200 fifth ave.

"Daddy... now let **me** play with Tinker-Toy"



Everyone has the "urge" with Tinker Toy

For over 35 years, "Tinker-Toy" has been the most famous and popular toy for children of all ages. Parents and children alike eagerly discover that a new and different motion model can be creatively constructed each time they play with Tinker Toy.

We are happy that our countless satisfied customers have ordered and reordered throughout each year... testimony that even Daddies want to play with Tinker Toy.

FIVE SETS, A SIZE FOR EVERY PURSE

Junior
Wonder
Special
Senior
Deluxe

THE TOY TINKERS, INC.

EVANSTON, ILLINOIS

No. 245

Meet

TEX...

the new junior member of the Hubley western repeaters!

NOT TOO BIG . . . NOT TOO SMALL, the eight-inch Tex is just right to meet the demand of the youngest cowboys and cowgirls. It has every selling feature that's most wanted . . . smoking barrel, repeating shots, elaborate engraving and the famous Hubley black steerhead handle. And it takes . . .

Just a push of the thumb to reload this gun . . .

This is the number you have been waiting for . . . the gun that truly completes the varied Hubley Line of fine pistols. For the present, the TEX and other Hubley Pistols are available on an allocation basis.

HUBLEY REPRESENTATIVES

New York Office and Showroom
Room 324, 200 Fifth Avenue
New York City

E. A. KAHN
155 S. Alto Vista St.
Los Angeles, Calif

WELCOME G. YOUNG & SON
99 Chauncy St
Boston, Mass

LEO A. SCHERRER
2840 W. 93rd St.
Seattle 7, Wash.

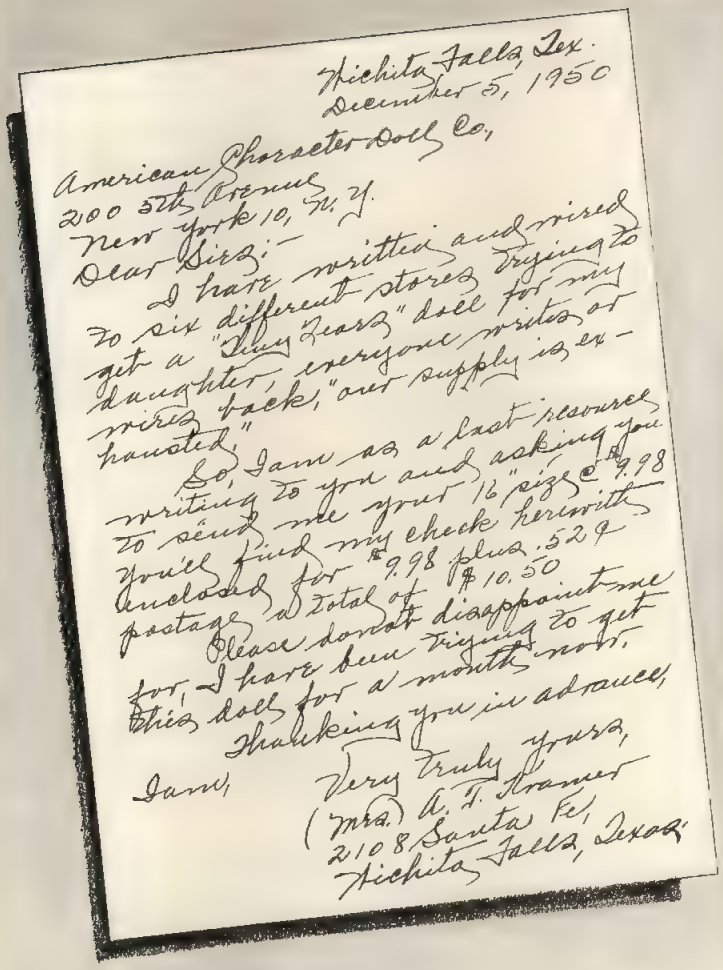
Export Sales Agent
GUITERMAN CO., INC.
35 S. William St., N.Y.C.

THE

HUBLEY

MANUFACTURING COMPANY

Lancaster, Pennsylvania



Wichita Falls, Tex.
December 5, 1950

American Character Doll Co.,
200 5th Avenue
New York 10, N. Y.

Dear Sirs:—

I have written and wired to six different stores trying to get a "Tiny Tears" doll for my daughter, everyone writes or wires back, "our supply is exhausted."

So, I am as a last resource writing to you and asking you to send me your 16" size @ $9.98 You'll find my check herewith enclosed for $9.98 plus .52¢ postage. A total of $10.50

Please don't disappoint me for, I have been trying to get this doll for a month now.

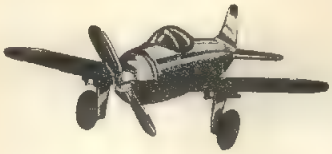
Thanking you in advance,

Yours,

Very Truly yours,
(Mrs.) A. T. Kramer
2108 Santa Fe,
Wichita Falls, Texas.

AMERICAN CHARACTER DOLL CO., 200 Fifth Avenue, New York 10, N. Y.

HUBLEY "KIDDIE" TOYS ★



No. 311 Airplane

Length, 5". 12 in box; 3 doz. to carton. 6 lbs. per carton. Red and aluminum. Aluminum propeller; retractable landing gear. Rubber wheels.

Doz. $2.40

NO. 350 HOOK & LADDER

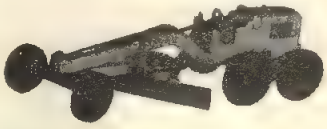
Plastic cab and trailer; metal chassis. Red with aluminum trim; 2 revolving searchlights. Revolving ladder turret with 4 plastic ladders. Metal axe. Rubber wheels, 12½" long, packed 1 in box, 1 doz. to carton, 17 lbs. per carton.

$15.00 Doz.

No. 351 Log Truck

Plastic cab and trailer; metal chassis. Orange with aluminum trim. Retractable trailer support. Load of logs. Rubber wheels. 12" long; packed 1 to box; 1 doz. to carton; 18 lbs per carton.

$15.00 Doz.



No. 481 Road Scraper

Yellow with aluminum trim, nickel scraper. Front wheels operated by steering wheel. Rubber wheels. 10¾" long; packed 1 to box; 1 doz to carton; 15 lbs. per carton.

$15.00 Doz.

No. 310 Motorcycle

Length, 5". 12 in box; 3 doz. to carton. 8 lbs. per carton. Red & green motorcycle; blue man. Rubber wheels.

$2.40 Doz.

No. 321 Tow Truck

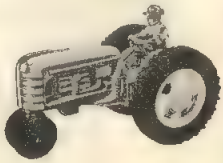
Length, 7". Packed 6 to box, 3 doz. to carton. 10 lbs. per carton. Red and green or red and cream, aluminum trim. Rubber wheels.

$3.60 Doz.

No. 320 Dump Truck

Length, 7". 6 in box; 3 doz. to carton. 10 lbs. per carton. Green & red or green & yellow. Aluminum trim; movable dump. Rubber wheels.

$3.60 Doz.



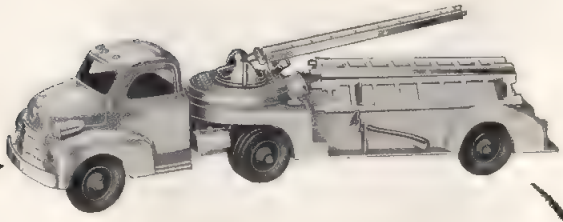
No. 309 Tractor (Plastic)

Length, 4¾". 12 in box; 3 doz. to carton. 11 lbs. per carton. Red, green and orange with aluminum trim. Rubber wheels.

$2.40 Doz. $2.40

HOOK AND LADDER TRUCK

Bright red with chrome trim, 12½" long. Plastic body, die cast chassis and rubber wheels. No. 350



TWO NEW

HUBLEY

Combination (Die cast and plastic)

KIDDIE TOYS

Here's the newest thing on the market! Hubley Combination Kiddie Toys . . . die cast chassis with plastic bodies!

THE

HUBLEY

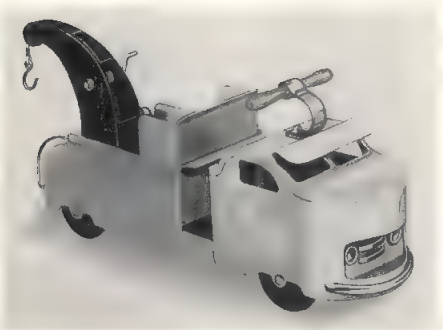
MANUFACTURING COMPANY

Lancaster, Pennsylvania

LOG TRUCK

Orange with chrome trim. 12" long with wooden logs. Die cast chassis, plastic body and rubber wheels. No. 351.

See These Attractive Numbers at the TOY FAIR



ROOM 307
200 FIFTH AVENUE

•

HYDRA LINE

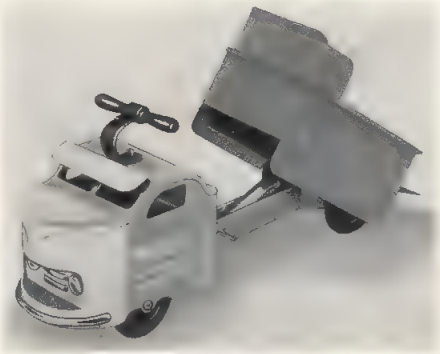
RIDE-A-TRUCK

Engineered for Riding . . .
Built to Take it!

NO. 201—HYDRA HEAVY DUTY WRECKER TRUCK

Powerful, hand-operated crane, lifts weights up to 20 lbs. New ratchet makes realistic noise when crank is operated. Crane operates on 360 degree swivel, permitting lifting from any angle. Has step and hand rails in rear, just like real wrecker truck. Convertible seat. Overall length 28". Weight 17 lbs

- **REAL HYDRAULIC ACTION**
- **SPECIAL BRONZE BEARING WHEELS**
- **HANDLE BAR ATTACHMENT**
- **CONVERTIBLE SEAT**



NO. 301—HYDRA AUTOMATIC HYDRAULIC DUMP TRUCK

Dump body raises hydraulically and automatically lowers tail-gate. Heavy Duty 18 gauge steel construction. Convertible seat. Overall length 24". Height to cab roof 9". Weight 15 lbs.

NEW YORK—Arthur Frey, 200 Fifth Ave.

DENVER (Exchange Bldg.); SALT LAKE CITY (157 Motor Ave.); PHOENIX, ARIZ. (17 East Jackson St.) W. E. Bergstrom Sales Co.

CHICAGO—Chas. H. Carroll, 1421 Merchandise Mart

SOUTH EAST—STANTON DENNIS, Atlanta, Ga.

SOUTH WEST—McDonald and Shaw, Dallas, Texas

HYDRA STEEL PRODUCTS INC. REPUBLIC BUILDING CLEVELAND, OHIO

HY-SCORE, CROSMAN—AIR PISTOLS, AND DAISY AIR RIFLES

Hy-Score Standard Single Shot Model 800B. Powerful air pistol, designed for accuracy, speed, and dependability. Piston-action compression eliminates pumping. Hair trigger. Tenite grip with non-skid thumb rest. Overall length 10¼". Shoots 177 cal. pellets. Retail 24.95.

No. 21R201. Each 17 46

Crosman Pellets. Pure virgin lead pellets made to fit all standard air rifles and pistols. Packed in boxes of 250 pellets each in a display carton.

No. 21R214 (.177 Cal.) Per doz. in packages 7.60

No. 21R215 (.22 Cal.) Per doz. in packages 9 20

Hy-Score 6-Shot Repeater No. 802B. Loads six pellets in new magazine mechanism. One "break" between each shot. Looks and feels like a Luger. Rifled barrel for pin point accuracy. No variations in power means no variations in velocity and trajectory. Shoots 177 cal. pellets. Retail 27 95.

No. 21R202. Each 19.56

Crosman Pump Pistol No. 105. Rustless, super-bronze rifled barrel; push type safety; open sights, tenite grip standard trigger pull. Operates on compressed air principle (air, hand pumped into chamber). Shoots .177 cal. pellets. Retail 17.96.

No. 21R204. Each 12 30

No. 21R213. (Same as above in .22 Cal.). Each 12.30

Crosman Town and Country Jr. Pump Rifle No. 109. Rustless, super-bronze rifled barrel; open sights (blade type front adjustable for rear sight, overall length 37½", weight 5 lbs., single shot, bolt action type. Shoots .177 pellets. Retail 17.95.

No. 21R207. Each 12.30

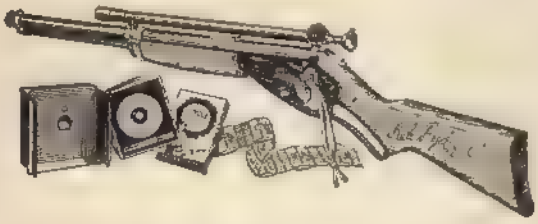
Crosman Town and Country Jr. Pump Rifle No. 110. Same as above in .22 cal. Retail 17.96.

No. 21R206. Each 12.30

Crosman CO₂ Pistol. Single shot pistol with perfect balance. Shoots at least 30 shots on a charge from the gas cylinder. Refillable cylinder furnished with pistol provides 800 to 1,600 shots. Barrel length 6½". Retail 19 95.

No. 21R209. (.177 Cal.). Each 13 70

No. 21R210. (Same as above in .22 Cal.). Each 13.70



DAISY AIR RIFLES

Daisy B-B Gun Target Outfit No. 311. Includes Red Ryder Carbine with 2-power telescope sight with rear elevation adjuster mounted on gun. Daisy bell-ringing target, 250 rounds of B-Bs, shooting manual. Each in display carton. Packed 6 to case. Shipping weight 52 lbs. Retail 7.95.

No. 21R17. Each 5.21

Daisy Targette No. 320. New table target air pistol set with chrome plated Targeteer. Includes colorful, sturdy plastic shooting gallery with seven white spinning targets, and two tubes of shot. Low velocity Targeteer is designed for safe, accurate shooting at short range. Each in display carton. Packed 10 to case. Shipping weight 22 lbs. Retail 3.50.

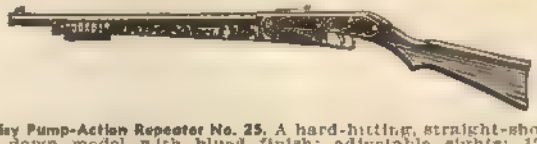
No. 21R18. Each 3.60

Targeteer Cal. .118 Shot for above. Packed 60 tubes to case. Shipping weight 15 lbs. Retail 15.

No. 21R7. Per case 4.90

Daisy Single Shot B-B Gun No. 100. Made of blued steel with well finished wood stock. Break-action, muzzle loader. Made for younger boys. Each in display carton. Packed 10 to case. Shipping weight 24 lbs. Retail 1.98.

No. 21R8. Each 1.31



Daisy Pump-Action Repeater No. 25. A hard-hitting, straight-shooting, take-down model with blued finish; adjustable sights; 1" "engraved" jacket forced-feed, 6 shot repeater, walnut finished stock. Each in display carton. Packed 10 to case. Shipping weight 43 lbs. Retail 7.50.

No. 21R15. Each 4.90

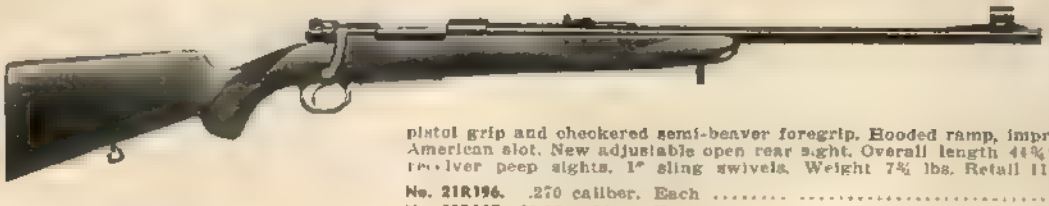
Daisy Red Ryder Carbine No. 111. Looks and handles like a real Western saddle gun. Complete with carbine ring and leather thong. Walnut finish pistol grip carbine stock. Equipped with "Lightening Loader." Packed with shot, targets and badge. Each in display carton. Packed 10 to case. Shipping weight 37 lbs. Retail 5.50.

No. 21R22. Each 3.60

Daisy Bulk Eye Shot No. 500 B-B Pak. New cellophane Penny Units in continuous strip dispensing carton. 500 packs to case. Shipping weight 12 lbs.

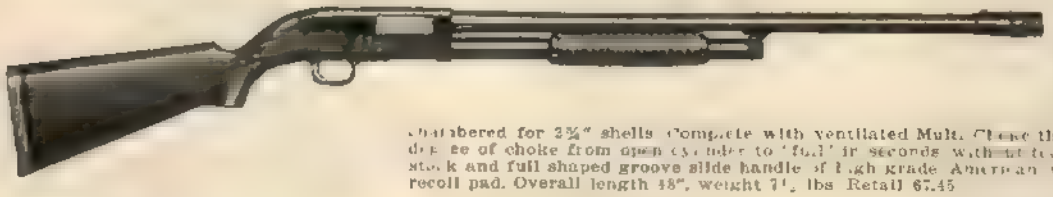
No. 21R10. Per case 3.20

HUSQVARNA RIFLE • NOBLE SHOTGUN • NOBLE RIFLE



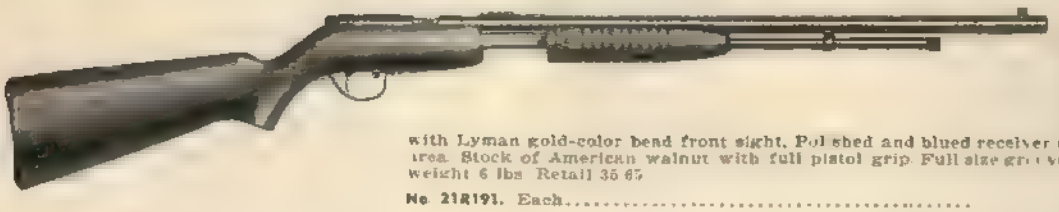
Hi-Power Rifle. Precision made rifle, manufactured by Husqvarna, Vapenfabric, Sweden, producers of fine firearms for almost 300 years. Excellent Swedish steel, 23¾" round, tapered barrel Mauser type 5-shot bolt. Artic Beech walnut finished stock with checkered pistol grip and checkered semi-beaver foregrip. Hooded ramp, improved gold post front side, standard American slot. New adjustable open rear sight. Overall length 44¾". Drilled and tapped for standard revolver peep sights. 1" sling swivels. Weight 7¾ lbs. Retail 119.95.

No. 21R196. .270 caliber. Each 89.95
No. 21R197. 30.06 caliber. Each 89.95



Noble Model 40 Slide Action Twelve-Gauge Hammerless Shotgun. 6-shot capacity shotgun with wooden plug furnished. Solid steel frame assures trouble-free alignment of all working parts. Handy action release. Automatic side ejection. 28" barrel of proof-tested steel chambered for 2¾" shells. Complete with ventilated Multi-Choke that reduces recoil and provides any degree of choke from open cylinder to "full" in seconds with no tools or extra choke tubes. Pistol grip stock and full shaped groove slide handle of high grade American walnut. "No Slip" resilient rubber recoil pad. Overall length 48", weight 7½ lbs. Retail 67.45.

No. 21R192. Each 49.58



Noble Model 33 Slide Action .22 Caliber Repeating Rifle. Hammerless repeating rifle with visible feeding mechanism. Tubular capacity with 21 short, 17 long, and 15 long rifle 22 caliber cartridges. Special selected steel barrel, 24" long. Adjustable supporting rear sight with Lyman gold-color bead front sight. Polished and blued receiver of selected steel, with large locking area. Stock of American walnut with full pistol grip. Full size grooved slide handle. Length overall 41¾", weight 6 lbs. Retail 35.65.

No. 21R191. Each 28.50

SCOPES – AIR PISTOLS – AIR RIFLES

Weaver J-2.5 Scope. 2½ power scope for use on all rifles, heavy and light, for all kinds of shooting. Features a fully corrected optical system with achromatic lenses, large brilliant field of view, ample eye relief for use on the scope rifle with heavy recoil. Internal windage and elevation adjustments of guaranteed accuracy. Clear, sharp crosshairs. Retail 22.50.

No. 22R22. Each 14.70

Weaver G-4 Scope. 4 power scope developed especially for .22 caliber rim fire rifles. Features an achromatic lens system, accurate guaranteed windage and elevation adjustments with friction lock, clear sharp crosshairs. Equipped with type TN mount. Retail 9.75.

No. 22R21. Each 6.66

Weaver K-2.5 Scope. 2½ power scope with wide field of view and brilliant illumination. Special hard coated lenses increase light transmission 30%. Available with standard crosshair reticule recommended for all kinds of shooting. Unique sun focus with adjustment to users vision. Internal windage and elevation graduated. Retail 37.50.

No. 22R23. Each 23.92

Weaver K-4 Scope. Same as above with 4 power lens. Retail 43.00.

No. 21R24. Each 28.67

Hy-Score (5-in-one) Sportster Air Pistol Model 8035B. Single shot air pistol with interchangable barrel. Shoots 177 and 22 pellets and darts and BB shot. Complete with two barrels and ammunition box. Overall length 7½". Made of blue finished steel with tenite handle. Retail 21.95.

No. 21R211. Each 17.46

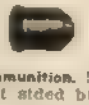
Revolutionary New
GAS PISTOL
by
SCHIMEL
Every sportsman will want one this ideal target and small game side-arm designed and built by Schimel is a Luger type pistol with all the balance, feel, beauty and accuracy that the names imply.

Schimel Gaz Pistol GP-22. New Luger type pistol that utilizes CO² soda cylinders for power 20 to 30 shots from a single cylinder. Adjustable rear sight; molded grip plates, precision built. Single shot, shoots .22 caliber pellets. Length 9¼", weight 33 oz. Ideal for target practice or as a small game side arm. Retail 20.00.

No. 21R212. Each 11.78

Sheridan Silver Streak Pneumatic Rifle. Fine quality pump action air rifle with extra power and penetration. .20 caliber micro-rifle rust-proof barrel. Open sight easily adjustable for windage and elevation. Durable silver-satin plated finish. Automatic "fireproof" safety. Sturdy valving mechanism with locked-in charge. Full length walnut stock. Retail 23.95.

No. 21R216. Each 17.60

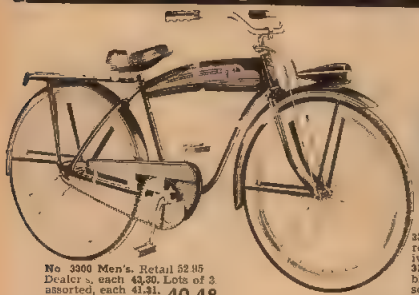


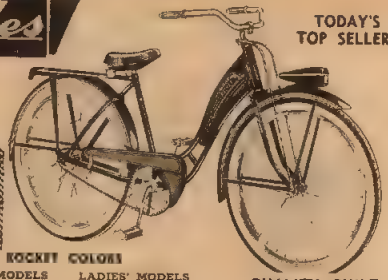
Sheridan Bantam Ammunition. 5 M/M (.20) caliber solid nosed, straight sided bullets correctly engineered to afford maximum accuracy, velocities, and hitting power. Packed 500 to the can, 50 cans to the case.

No. 21R217. Per M 3.13

ROCKET Bicycles

TODAY'S TOP SELLERS





ROCKET COLORS

MEN'S MODELS

3300 — Monark Maroon, cruiser red, ivory and sea green

3100 — Showroom black, ivory and crimson

3000—Regal red, ivory and sea green.

LADIES' MODELS

3310 — Triumph blue, strata blue and white

3110 — Triumph blue, ivory and crimson.

3010 — Triumph blue, ivory and crimson

QUALITY BUILT BICYCLES

Bicycles not included in our Prepaid Freight Offer

A fully equipped, quality built Rocket bicycle of all around durability in men's and ladies' models Featuring the full size 18½" advanced design frame. Air-style headlight, tan Vinyl plastic saddle, safety approved rear reflector, extra long, extra deep fenders, whitewall balloon tires, 26x2.125, built-in tank and horn, chrome plated steel truss rods and wheel rims, sturdy luggage carrier with extra large built-in reflector, mar-proof and chip-resistant finish, full length chain guard, new curved handlebar stem, triple plate crown fork with steel insert, double bar style frame reinforced at framehead and crank hanger, quick release drop out fork ends and precision-built crank, chain and sprockets. New Departure Morrow or Musselman coaster brakes Men's model in new supertone Monark maroon, cruiser red, ivory and sea green; girls: in triumph blue, strato blue and white Shipping weight 59 pounds

No 3300 Men's. Retail 52.95 Dealer's, each 43.30. Lots of 3 assorted, each 41.31. Less 2% net **40.48**
Same as above without tank and horn, and luggage, carrier Shipping weight 56 lbs Retail 47.95

No 3100 Men's. Dealer's, each 38.17. Lots of 3 assorted, each 37.37. Less 2% net **36.62**

Men's Special Promotional Model. Same as 3300 Less tank, horn, light, luggage carrier and chain guard. Retail 44.95

No. 3000 Men's. Dealer's, ea 35.86. Lots of 3, assorted, each 35.17. Less 2% net **34.47**

No. 3310 Ladies'. Retail 52.95. Dealer's, each 43.30. Lots of 3, assorted, ea. 41.31. Less 2% net **40.48**
Same as above without tank and horn, and luggage carrier Shipping weight 56 lbs Retail 47.95

No. 3110 Ladie's. Dealer's, ea 38.17. Lots of 3, assorted Each 37.37. Less 2% net **36.62**

Men's Special Promotional Model. Same as 3310 Less tank, horn, light luggage carrier and chain guard Retail 44.95

No. 3010 Ladies'. Dealer's, ea 36.86. Lots of 3, assorted, each 35.17 Less 2% net **34.47**

MONARK and ROCKET JUNIOR BICYCLES

BICYCLES NOT INCLUDED IN OUR PREPAID FREIGHT OFFER

ONE YEAR FIRE AND THEFT INSURANCE INCLUDED IN PURCHASE PRICE

MONARK JUNIOR BICYCLE FULLY EQUIPPED

Monark equipped models scaled to exacting youthful requirements with the same sturdy construction used in Monark adult models "Safety-Gard" bumper rail and tank rails Chrome trimmed "Road Focus" beam headlight. Built-in tank and horn. U S chain whitewall tire 24x2 125 balloon tires Exclusive Monark styled chrome plated truss rods. New Monark Junior luggage carrier "Airflo" chrome plated reflector and chrome trimmed saddle Easy rolling racing style drive assembly with new style chain guard. New Departure, Morrow or Musselman coaster brakes Boy's model finished in super tone style Monark maroon, cruiser red, ivory and gold; girl's model in strata blue white and gold, with white rubber handle bar grips and pedals Shipping weight 55 lbs Retail 54.95

No. 1300 Boy's. No. 1310 Girl's. Dealer's, each 43.61. Lots of 3, assorted, each 42.84. Less 2% net **41.98**

ROCKET JUNIOR MODELS 24 INCH SIZE

A special built rocket model constructed to size for the younger generation The same careful attention was devoted to design, construction and top quality equipment as used on the standard size models Features a 19" frame and 24x2 125 double tube balloon tires. The finish and other accessories and features are exactly like the adult number. 3300 and 3310, less the luggage carrier, tank and horn Shipping weight 48 lbs Retail 43.95

No 1100 Boy's. No. 1110 Girl's. Dealer's, each 35.30. Lots of 3, assorted, each 34.06. Less 2% net **33.40**

ROCKET JUNIOR 20-INCH SIZE—13-inch double bar style frame 20x2 125 double-tube safety-tired balloon tires, chain guard, "kick-up" type parking stand and "stimsonite" safety rear reflector **Boys finished in cruiser red, ivory and triumph blue, Girls finished in triumph blue, ivory and crimson.** Retail 41.95

No. 1000 Boy's. No. 1010 Girl's. Dealers, each 34.56. Lots of 3, assorted, each 33.37. Less 2% net **32.70**

16-INCH SIZE ROCKET Safety-Bike FOR THE LITTLE TOTS

Not a toy but a full strength, top quality bicycle for the younger set Scientifically proportioned to fit and develop young limbs and bodies safely on the sidewalk instead of in the street Rides and handles exactly like a full size bike **Boy's model in brilliant Injun Red with eye-catching Ivory trim. Girl's model in rich Sailor Blue with sparkling white trim.** Full length Chain Guard and convenient Kick-Up Stand Curved Chrome Steel Handle-bars with Ribbed Rubber Grips Deluxe Roller Bearing Pedals with Black Rubber Pads Roller Bearing Crank and Head Assemblies Nationally known coaster brake Extra long heavy guage Steel Mud Guards Motor bike style frame Double coil spring saddles with soft plastic-type covers 16x1 75 puncture-proof semi-pneumatic tires **Bright red, button-type jewel rear reflector.** Mar-proof and chip-resistant tripe baked enamel finish Shipping weight 36 lbs. Retail 39.95

No. 900 Boys'. No. 910 Girl's. Dealers, each 29.95 Lots of 3, assorted, each 28.95. Less 2% net **28.37**
(Not included in our Prepaid Freight Offer.)

GENERAL-AMERICAN DISTRIBUTORS
42 W. CERMAK ROAD, CHICAGO 16, ILLINOIS

SEE PAGE 219 FOR ORDER BLANK

DOLLS • DOLL CARRIAGE • HOUSEHOLD TOYS

BROTHER COOS in Overalls. Unbreakable plastic head, magic skin body, sleeping eyes Sobs, cries and coos Wears long overalls, shirt and cap.

No	Ht	Retail	Dirs	Lots of 3 ea	Less 2% Net
4TBC912	14"	7.70	5.50	5.14	5.04
4TBC922	16	8.80	6.84	6.60	6.46
4TBC932	18	12.00	9.48	8.07	7.91
4TBC942	20	14.50	10.02	9.34	9.34
4TBC982	27	22.50	19.25	18.34	17.97

Life sized Doll

TONI DOLL A plastic with nylon wig for shampooing and play waving with special Toni permanent wave kit of shampoo lotion, curlers bands and end papers Hair gets prettier when washed and combed Beautifully molded with enough nylon in wig for 7 pairs expensive hose

No	Ht	Retail ea	Dirs 3 ea	Lots of 3 ea	Less 2% Net
4TONI-914	14	14.00	9.80	9.10	8.92
4TONI-916	16	17.00	11.90	11.05	10.72

THAYER DOLL HI-CHAIR—Exact replica of famous Thayer Baby Hi-Chair Made of Northern hardwoods Overall height 29", height of back 12¾", seat 9½"x8½" deep, leg spread 15½ Stationary wood type Finished in waxed Birch or Maple SPECIFY F O B Gardner, Mass Shipping wt 9 lbs Retail 10 50

No. 4TT1401. Dealer's, each 7.20. Lots of 3, each 6.81. Less 2% net 6.38.

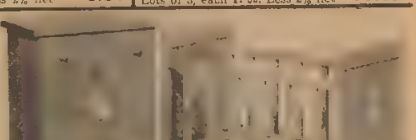
THAYER "RUDOLPH" MUSICAL ROCKER Superior styling Northern hardwoods construction Shaped posts and arms 12" rocker runners with music box attached Comfortable panel back with red and brown Rudolph the red nosed reindeer decoration finish in Waxed Birch Height of back 11¾", seat 13" wide x 10½" deep, 21½" high F O B Gardner, Mass. Shipping weight 9 lbs Retail 15.75.

No. 4TT892R. Dealer's, each 11.55. Lots of 3, each 11.05. Less 2% net 10.83

THAYER "MOTHER GOOSE" TABLE AND CHAIR DOLL SET—Handsome Mother Goose decoration on table top. Chairs are Colonial type, with arm rests Seat 12" deep and 13½" wide Chair height is 25¾" Height of back on chair 14½". Table top is made of 1-inch stock Top size 28x20½". Legs attached with metal corner braces. Finished in beautiful waxed birch and decorated in red or mapletone with blue decoration. Specify finish. F.O.B Gardner. Mass. Shipping weight 34 lbs. Retail 21.75

No. 4TT 1486. Dealer's, each 15.48. Lots of 3 each 14.90 Less 2% net 14.60

Thayer DOLL FURNITURE



THAYER MATCHING DOLL CRIB AND CHIFFOROBE—Generous doll size. Made of Northern hardwoods, matching decals Crib has handsome panels, easy-roll casters and wood slat mattress supports. Crib size 12½" wide, 19" high, 23½" deep Chifferobe has simulated blanket drawer, entire door panel opens to reveal a top storage shelf, a clothes hanger and a spacious clothes compartment Size 13½" wide, 20" high, 8¾" deep Finished in Mapletone or Waxed Birch, Specify F O B. Gardner, Mass. Shipping weight 15 lbs. Retail 23.50

No. 4TT2405. Dealer's, each 18.75. Lots of 3, each 16.85. Less 2% net. 15.92

Thayer BABY DOLL CARRIAGES

FURNITURE AND DOLL CARRIAGES NOT IN OUR PREPAID FREIGHT OFFER

THAYER FOLDING DOLL CARRIAGE—Body size 22½"x11"x8" deep, extension front 4-bow, piped hood Curved plated hood fixtures. Aluminum finished all steel chassis Stabilizer 7-inch wheels, wire spoke ⅝" rubber tires Plated hub caps. Colors, Red Plaid or Turquoise Specify. Shipping wt 17 lbs Retail 14.25.

No. 4TT914. Dealer's each 9.75. Lots of 3 each 9.25 Less 2% net 9.16

THAYER ENGLISH DOLL COACH—English type body with extension front 24" long, 12" wide 12" deep. Pusher 25" from floor; rail, 20½". Hood, 4-bow, piped with plated fixtures Sun visor Aluminum finished underslung imperial gear Plated tubular pusher Foot brake with release lever 8" wheels, 2" tires Colors, Turquoise with Blue decoration Two-tone Blue and Grey, with Mauve decoration Gray, with Blue decoration Specify Shipping wt. 24 lbs Retail 23.75

No. 4TT1204. Dealer's, each 16.75. Lots of 3, each 16.10 Less 2% net 15.75

Thayer "TOPS FOR TOTS"

THAYER "PINT SIZE" FOLDING DOLL CARRIAGE—Aluminum finished all-steel chassis 3-bow, piped, movable hood Curved plated hood joints Size 17"x8"x6" deep. Pusher 22½" from floor, 5" stamped wheels, ¾" rubber tires, color Army Blue with White trim Shipping weight 22 lbs. Retail 7.95

No. 4TT912. Dealer's, each 5.13. Lots of 3 each 4.90 Less 2% net 4.80

Ideal Dolls

Sparkle Plenty

Made of magic skin with unbreakable plastic head and long blond wig. Sleeping eyes with eyelashes. Dressed in blue play suit trimmed in white. White leatherette shoes. She cries, sobs, coos

Stock No.	Mfr's. No.	Size In.	Fact. List EACH
4H 5875	0134	14	$7.00

Individually packed.

Pete and Repete—Snookie Twins

Cuddlesome, lovable baby twins. Press their soft, little tummies and hear them coo. Bathe them, soap and water won't harm their soft, latex bodies and vinyl head. Hug them, they feel like real infants (Bodies are foam rubber). Dressed in flannel diapers. Wrapped in soft receiving blankets

Stock No.	Mfr's. No.	Size In.	Th Pair	Fact. List PAIR
4H 5896	0092	9½	1	$3.00

Twelve pair in a carton

Toni Doll

All plastic doll with magic nylon wig that can be shampooed and play waved over and over again. Comes with spoon. Toni play wave kit which contains shampoo, lotion, plastic curlers, rubber bands and end papers. The more the hair is washed and combed the prettier it gets

Stock No.	Mfr's No.	Size In.	In Ctn	Th Dz.	Fact. List EACH
4H 5688	1140	11	12	25	$12.00
4H 5689	1100	16	6	42	$14.00
4H 5673	011210	21	6	60	$20.00

Saucy Walker

Saucy Walker doll, with the face of an angel is the first and only complete doll. All the features to keep unlady busy every playing hour. Each part of her body moves. Even her eyes roll from side to side. Her gorgeous saran wig can be washed combed and curled. Comes with plastic curlers. All plastic fully jointed doll. Dressed in beautiful organdy dress, trimmed with lace. Wears cotton slip, panties, shoes and socks. Stands upright when not in motion

Stock No.	Mfr's No.	Size In.	In Ctn	Th Ea.	Fact. List EACH
4H 5703	2007	32	6	4	$16.00

Fleischaker

Bi-Bye Baby

Bi-Bye babies have head, arms and legs of plastic, the soft plastic that looks and feels like human skin. Can be cleaned with a wet cloth. Chubby beautifully shaped arms and legs with detailed little fingers and toes. Bi Bye Baby's thumb fits into her open mouth. Body is softly stuffed with cotton. Features are hand painted. Dressed in flannelette diaper, kimona and wrapped in a fluffy baseon plaidblanket, with ribbon armand it tied in a big bow

Stock No.	Mfr's. No.	Size In.	Th Doz.	Fact. List EACH
4H 5652	620	18	41	$9.00

One in a box

Bi-Bye Baby—Suntan

Same as above except the head arms and legs are a deep suntan shade to represent a colored baby.

Stock No.	Mfr's. No.	Size In.	Th Doz.	Fact. List EACH
4H 5654	319ST	22	41	$11.00

One in a box.

Debbie

A walkable doll with crying voice. This doll has rooted human hair soft vinyl head, arms, legs, moving eyes. Plaid taffeta dress eyelet embroidery trimmed. Slip, panties, shoes and stockings

Stock No.	Mfr's. No.	Size In.	Th Ea.	Fact. List EACH
4H 5900	225	22	2½	$16.00

Six in a carton.

Dotted flocked organdy with wide collar

Stock No.	Mfr's. No.	Size In.	Th Ea.	Fact. List EACH
4H 5901	223	22	2½	$16.00

Six in a carton.

Plaid taffeta dress. Eyelet embroidery

Stock No.	Mfr's No.	Size In.	Th Ea.	Fact. List EACH
4H 5902	285	28	3½	$20.00

Six in a carton

Sunbabe Dolls

4H5571

Soft an ovable sunbabe stuffed latex skin dolls have that nat ural flesh color and life-like feel Movable soft rubber heads Latex bodies are stuffed with shredded foam rubber Dolls have crying voice.

Huggie—Painted Eye

Doll with diaper Comes in cellophane bag with descriptive tag

Stock No.	Mfr's. No.	Size In.	lb Each	Cat. List EACH
4H 5571	10091	11	½	$1 25

Twenty four in a carton.

Huggie—Painted Eye

With drinking and wetting action and bottle

Stock No.	Mfr's. No.	Size In	lb Each	Cat. List EACH
4H 5572	10040	11	6	$1 80

Twenty-four in a carton.

Huggie—Plastic Eye

Drinking and wetting action bottle and jacket

Stock No	Mfr's No.	Size In.	lb Each	Cat. List EACH
4H 5575	10042	11	6	$2 00

Twenty-four in a carton.

"So-Wee" Treasure Chest

Contains No 10041 Sunbabe 10-inch drinking-wetting doll with accessories. Accessories include glass nursing bottle with nipple soap dish, teething ring rubber water bottle, bell rattle and bib Comes in attractive cellophane window box

Stock No.	Mfr's No.	lb Each	Cat. List EACH
4H 5574	10541	¾	$3 10

6ts in a carton.

Vinyl Doll Assortment

Sun Rubber Co.

Assortment, contains 12 10 ½ s each Tod L-Dee, Tod L-Tim, Tod-L-Tot All are beautifully designed with flesh color faces and bodies with vowels Molded in one piece with split arms and legs Under garments, shoes and socks are painted eyes are stationary plastic Each in a cellophane bag with descriptive tag

Stock No.	Mfr's. No.	Size In.	lb Assort	Cat. List Each
4H 5570	11036	10½	7	▲$13 35

One on a carton

Knickerbocker Dolls

Sta-Up Plastic Doll Stand

Knickerbocker

Cheerful heart shape plastic base with coil spring to slip over doll's feet

Stock No	Mfr's No	Base In.	Fits Doll In.	lb Dzn	Cat. List PER 100
4H 3342	710B	2½x2½	8	½	▲8 8 35
4H 3343	711	3 x3	12	½	▲ 10 00
4H 3344	712	3½x3½	14	1	▲ 15 00

Two dozen in display 6 dozen in a carton.

▲We do not break displays

IDEAL DOLLS

IDEAL'S

Toni

DOLL

IDEAL'S

BLESSED EVENT

DOLL

...and more...

IDEAL TOYS ARE NEW—EXCITING—DIFFERENT!

it's become a

HABIT

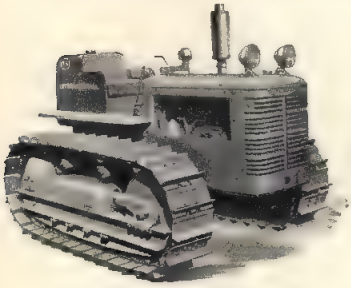
Ideal is *always* toy news!
Ideal toy promotions pay off for you!.

...That's why toy buyers
Look to IDEAL for smash hits!

HERE ARE JUST A FEW OF IDEAL'S CURRENT SMASH HITS...

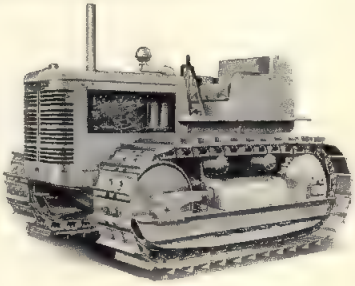
INTERNATIONAL CRAWLER TRACTORS

COMPACT POWER FOR MANY APPLICATIONS



Model T-9 Gasoline Crawler Tractor

Belt horsepower	48.89
Drawbar horsepower	42.98
Governed r.p.m.	1450
Drawbar pull in first gear	9,868 lb
Speeds, forward, 5, from 1.5 to 5.3 mph.	
reverse, 1,	1.7 mph.



Increased Horsepower Model TD-9 Diesel Crawler Tractor

Belt horsepower	48.5
Drawbar horsepower	40.5
Governed r.p.m.	1450
Drawbar pull in first gear	9,900 lb.
Speeds, forward, 5, from 1.5 to 5.3 mph.	
reverse, 1,	1.7 mph.

Here are four, general utility crawlers that have found their way into almost every kind of work that a small and medium size track-type tractor can do. A wide variety of matched equipment is available for them. They fill the needs of many industries as mobile cranes, front-end loaders or shovels, dirt movers, sanitary dump workers, luggers of logs and anything else that needs skidding, pushing or hauling; and as power for winches, compressors and earth drills.

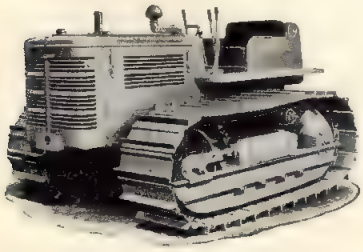
Their usefulness to contractors, loggers, miners, quarry operators, municipalities, townships and counties, railroads and factories is unlimited. And their matchless operating economy makes them profitable to own and work.

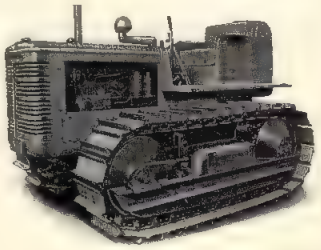
Model T-6 Gasoline Crawler Tractor

Belt horsepower	38.96
Drawbar horsepower	32.92
Governed r.p.m.	1450
Drawbar pull in first gear	7,652 lb
Speeds, forward, 5, from 1.5 to 5.4 mph.	
reverse, 1,	1.7 mph.

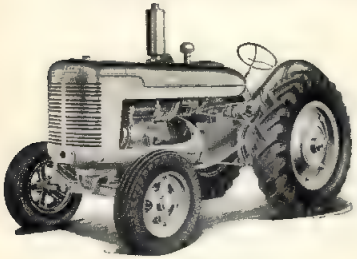
Increased Horsepower Model TD-6 Diesel Crawler Tractor

Belt horsepower	37.5
Drawbar horsepower	31.3
Governed r.p.m.	1450
Drawbar pull in first gear	7,710 lb.
Speeds, forward, 5, from 1.5 to 5.4 mph.	
reverse, 1,	1.7 mph.





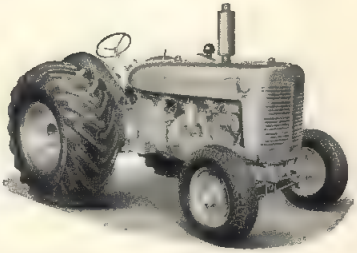
INTERNATIONAL INDUSTRIAL WHEEL TRACTORS



Model I-9 Gasoline Wheel Tractor

Net horsepower at flywheel	55.0
Belt horsepower	52.0
Drawbar horsepower	48.0
Governed r.p.m.	1500
Max. drawbar pull, 1st gear	8045 lb.
Speeds, forward, 5, from 2.3 to 15.2 mph	
reverse	2.3 mph

*With single rear tires.



Model ID-9 Diesel Wheel Tractor

Net horsepower at flywheel	55.0
Belt horsepower	52.0
Drawbar horsepower	48.0
Governed r.p.m.	1500
Max. drawbar pull 1st gear	8040 lb.
Speeds, forward, 5, from 2.3 to 15.2 mph.	
reverse	2.6 mph

*With single rear tires.

A complete line of industrial wheel tractors for all mobile-power needs is available in the International models shown here and on the next page. Three carburetor-type models and two diesel models for heavy duty applications are supplemented by one utility model and four Farmall models that have been used extensively for industrial, highway maintenance and general utility applications.

International Industrial Wheel Tractors operate a wide variety of matched equipment such as: front-end shovels, bulldozers, blade graders, scrapers, road rollers, wagons, sprinklers, rotary mixers, road drags, tamping rollers, disks, trailers, cranes, sweepers, mowers, snowplows, scoops, stump pullers, air compressors, post hole diggers, rock crushers, pumps, saws, winches, fork lifts and plows.

Internationals are highly recommended for these jobs because they are reasonable in cost, efficient and economical in operation, and thoroughly adaptable to many different uses. The wide variety of the International Wheel Tractor line allows you to fit the right tractor to your job.

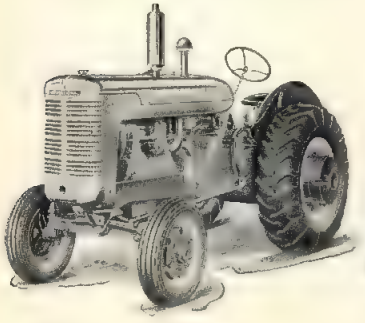
International Industrial Wheel Tractors are available with heavy-duty as well as standard chassis

(Continued on next page)

Model I-6 Gasoline Wheel Tractor

Net horsepower at flywheel	40.5
Belt horsepower	38.5
Drawbar horsepower	35.5
Governed r.p.m.	1450
Max. drawbar pull 1st gear	6240 lb.
Speeds, forward, 5, from 2.2 to 14.3 mph	
reverse	2.6 mph.

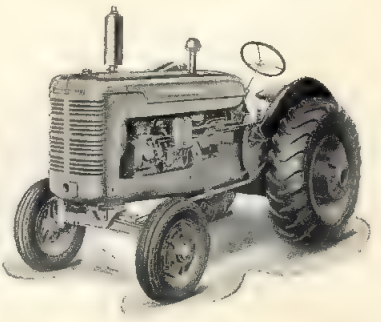
*With single rear tires.



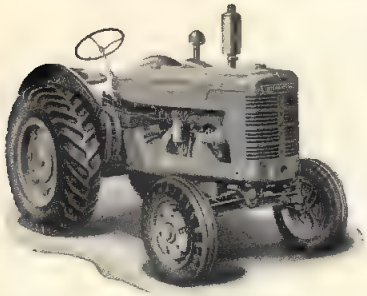
Model ID-6 Diesel Wheel Tractor

Net horsepower at flywheel	40.5
Belt horsepower	38.5
Drawbar horsepower	35.5
Governed r.p.m.	1450
Max. drawbar pull, 1st gear	6230 lb.
Speeds, forward, 5, from 2.2 to 14.3 mph.	
reverse	2.6 mph.

*With single rear tires.

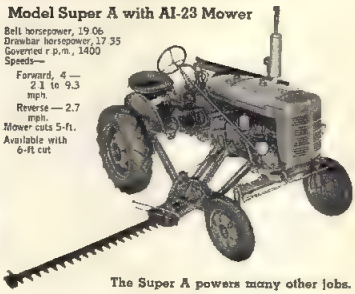


INTERNATIONAL INDUSTRIAL WHEEL TRACTORS



Model Super A with AI-23 Mower

Belt horsepower, 19.06
Drawbar horsepower, 17.35
Governed r.p.m., 1400
Speeds—
Forward, 4 — 2.1 to 9.3 mph.
Reverse — 2.7 mph.
Mower cuts 5-ft.
Available with 6-ft cut



The Super A powers many other jobs.

Model I-4 Gasoline Wheel Tractor

Net horsepower at flywheel	20.5
Belt horsepower	27.5
Drawbar horsepower	25.8
Governed r.p.m.	1630
Max. drawbar pull, 1st gear	4300 lb.
Speeds, forward, 5	from 2.2 to 15.5 mph
reverse	3.0 mph.

*With single rear tires.

(Continued from page 4)

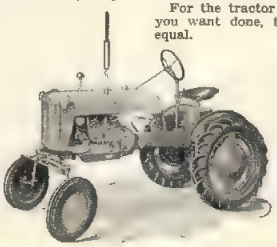
Heavy-duty load-carrying equipment includes heavy front axle, heavy-duty rear axles and housings for extra strength and hydraulic rear wheel brakes for extra stopping power when carrying heavy loads.

International Tractors can be equipped with desired accessories such as starter, lights for night work, hour meter, and special wheel and tire equipment. Each is priced separately. You do not have to buy an attachment group just to get one item that you want. **You invest in International equipment according to your needs.**

Diesel models have full-diesel engines with self-contained, all-weather starting system. Gasoline or carburetor-type engines are of the International improved-combustion type. You have your choice of fuel—gasoline or distillate—by ordering a combination distillate-gasoline manifold for carburetor-type tractors.

Farmall models shown below, and the Farmall "M" which is the carburetor-type model similar to the "MD" diesel model, fit into many highway maintenance, construction and hauling jobs. They are available with wide-tread front axles or the tricycle design illustrated.

For the tractor most readily adapted to the job you want done, the International line is without equal.

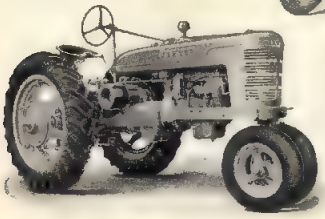


The Farmall CUB

A small gasoline tractor of 8.2 D. B. H. P. for light, general-duty hauling, mowing and powering. Its usefulness to parks golf clubs and municipalities gives it a place in the International Industrial Power line Available with a 4½-ft. mower.

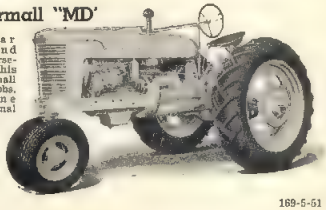
The Farmall "H"

High clearance and short turning radius of the Farmall are features of the Farmall line. The "H" provides 26.5 maximum drawbar horsepower and 27.9 belt horsepower



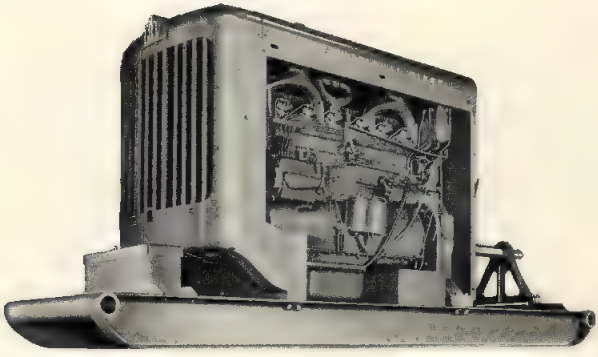
The Farmall "MD"

33 drawbar horsepower and 36.5 belt horsepower fits this Diesel Farmall into many jobs. The gasoline model, Farmal "M" is similar



INTERNATIONAL DIESEL POWER UNITS

From 45 to 180 Horsepower



The New INTERNATIONAL UD-24

Horsepower at rated r.p.m.	180
Rated r.p.m.	1375
Maximum torque, pounds-feet	775
Engine r.p.m. at maximum torque	800
Bore and Stroke, inches	5¾x7
Piston displacement, cu. in.	1090.6

This new International 6-cylinder diesel engine of 4-cycle, valve-in-head design is a completely equipped, self-contained power plant. It delivers 180 working horsepower at 1375 r.p.m. and establishes new standards for power and performance among high-speed diesels.

The UD-24 is new from radiator grille to power take-off and represents the ultimate in diesel engineering in its power class.

All-weather, push-button starting; thermostatically controlled cooling to maintain correct temperature for maximum efficiency; a twin-plunger International fuel injection pump to assure accurate and uniform metering of fuel to each cylinder; efficient, precombustion fuel injection for effective fuel combustion; file-hard, replaceable cylinder liners: induction-hardened counter-balanced crankshaft and other vital parts; full-pressure lubrication through drilled passages and to all moving parts; and efficient filtering systems for air, fuel and lubricants are a few of the features which assure economical and dependable operation of this great new power package for heavy-duty work.

The cylinder head is of new design which increases engine efficiency through better breathing ability, direct scavenging and cooler operation.

A 12-volt electric system for cranking, 80-gallon fuel tank, outboard bearing with extended shaft for wide pulleys and long skid base are available for this power unit. The UD-24 is also available with short skid base or as a foot-type power unit. It is also available as a stripped engine for installation in machines.

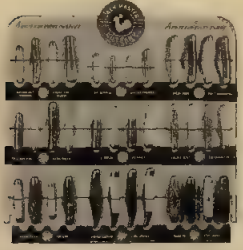
A 24-volt electric starting system is available as an extra for cranking in cold climate.

The UD-24 is unexcelled for dependable power for rock crushers, pipeline and irrigation pumping, oil well drill rigs, cotton gins, saw mills, grinders, refrigeration plants, generators, draglines, dredges, shovels and hoists.

169-6-51

Pocket Knives

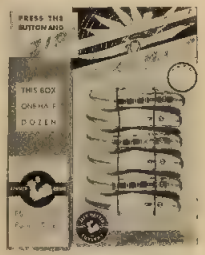
Jack-Master Assortments



All brass lined Assorted colored acetate handles. Assortment consists of one dozen 2-blade Pen., one dozen 3-blade medium Stock Pattern clip, spey and pen; one dozen 3-blade cattle, clip, spey and pen. Assorted scales. Card display of 3 dozen knives.

Stock No.	Mfrs. No.	In Asst.	Approx. Ibs. Doz.	Cat. List ASST.
2J 3745	1776	36	2	$23.65

Three dozen in assortment



Push Button Safety Knives

Highly polished, hand edged clip blade. Nickel silver trim. Solid brass linings. 4⅝ inches long with a 3 inch clip blade. Packed one dozen to the box, 6 Knives on a card and 6 knives in reserve shelf box.

Stock No.	Mfr's. No.	In Asst.	Pack. List ASST
2J 3744	JM90PB	1⅝	$15.00

Three Blades

These sturdy three blade knives of patented Jack-Master construction are made to give good service under hard usage. Blades are of high carbon cutlery steel scientifically heat treated, nicely polished and hand edged. The handles are in assorted colors and are mounted on an attractive four color display card of modern design. They vary in size from 3⅜ to 3 inches.

Master, spey and punch blades.

Stock No.	Mfr's. No.	In Asst.	Approx. Ib. Doz.	Pat. List ASSORTMENT
2J 3728	JM90	12	2¼	$12.00

Sportsmaster Assortment

One Blade—Display Assortment of 12

Smooth, perfectly ovalled handles in a variety of sparkling colors. Patented Jack Master precision construction. Every knife is perfectly shaped and absolutely uniform. Blades are scientifically heat treated, nicely finished and hand edged. Attractively displayed on a modern four color gusseled counter card. They vary in size from 2 in. to 4 in.

Stock No.	Mfr's. No.	Type Blade	Approx Ib Doz	Pat List ASSORTMENT
2J 3736	JM1499-157	Master	1¼	$6 70

Pocket Knives

Jack-Master Assortments

Jack-O-Matic Junior

Push Button

Highly polished Hand edged pen blade Nickel silver trim Solid brass linings Each knife has shackle and bead chain Individual Vinyl fita purse supplied with each knife. Packed weight: 1¼ pounds.

Stock No.	Mfr's. No.	In Asst.	Approx. lb Doz.	Fact. List ASSORTMENT
2J 3722	JM96PB	12	1¼	$18.00

One dozen on display card

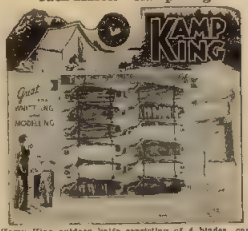
Master and pen blades

Stock No.	Mfr's. No.	In Asst.	Approx lb Doz.	Fact. List ASSORTMENT
2J 3730	JM600	12	2	$12.00

Contains 12 large size blade Jack Knives and six one blade Fish Knives

Stock No.	Mfr's. No.	In Asst.	Fact. List ASST
2J 3340	LC1	7½	$34.18

Jack-Master—Kamp King



The Kamp King outdoor knife consisting of 4 blades, can opener reamer, blade and screwdriver Strong, solid, patented Jack-Master construction Every Kamp King is perfectly ovalled and absolutely uniform Handles are of variety of beautiful colors Attractively displayed in a modern five color display card

Stock No	Mfr's. No.	In Asst	Approx lb Doz.	Fact. List ASSORTMENT
2J 3724	JM615	12	2	$12.00

Simulated Stag Handle

Stock No.	Mfr's. No.	Doz On Card	lb Doz.	Cat. List DOZEN
2J 3734	X611	1	2	$14.40

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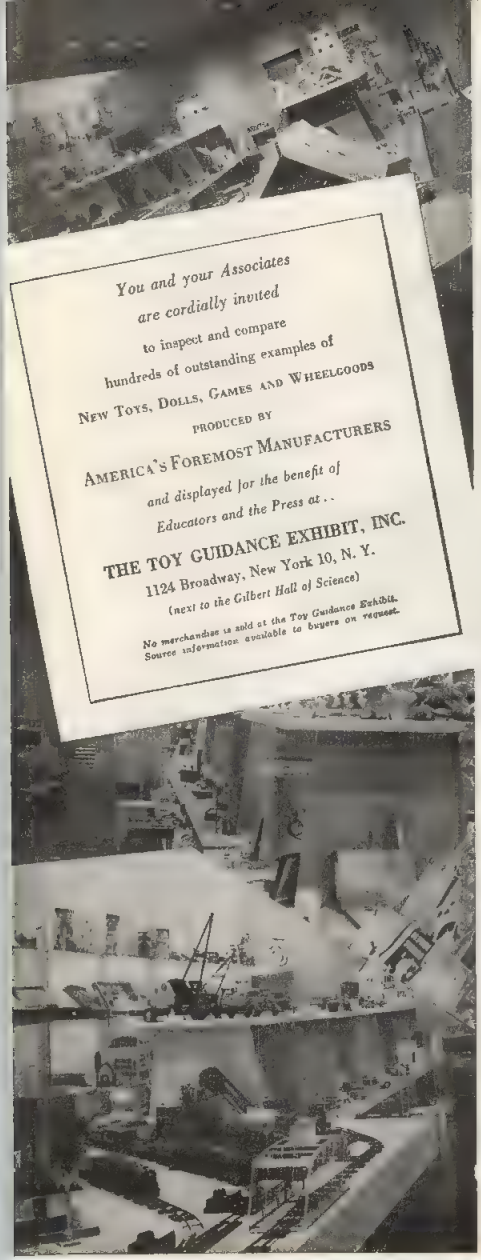

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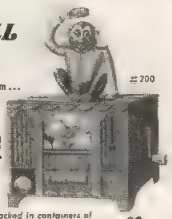
All Plastic Jocko comes in gay red, and yellow

Suggested Retail Price $1.59



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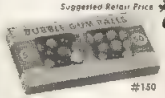

#150

Refills packed in containers of 50 gum balls. Suggested retail price— 29¢

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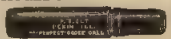


Ol't's

Hand made of hard rubber. Perfect in workmanship, material and true-to nature tone.

Stock No.	Mfr's. No.	Lgth. In.	Barrel In	Fact. List EACH
2K 8683	A5	6	1½	$5 00

One dozen in a box.

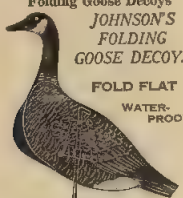
Foss Valley Quail Call

Very effective in locating Quail when in the grip of hobby. Made and tuned by hand. 3½ inches long, very attractive chrome and black plastic. Lasts indefinitely, guaranteed. Little practice necessary for perfect results.

Stock No.	Lgth. In.	Fact. List EACH
2K 8894	3½	$1 50

Two dozen in a carton.

Folding Goose Decoys



Johnson's—Waterproof Paper

Stock No.	Type	Approx. lb Doz.	Cat. List EACH
2K 8317	Goose	9	▲$1.85

One dozen in a bag.

Dupe-A-Goose—Decoys

Folds completely flat for easy carrying yet a snap of the simple tool in spreader and they are in trim decoys. The socket joint makes optional life like movement in the breast. Decoys are actual photographic reproductions of live birds, and are completely natural in shape and color. Constructed of tough, fibre board and waterproofed. One dozen in carton containing 8 standing and 4 feeding.

Stock No.	lb Dozen	Fact. List EACH
2K 8320	10	▲$1.63

Decoy Ducks

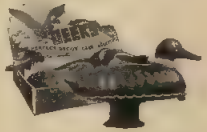
Johnson's Waterproof Paper

Printed in natural colors on tough jute fibre board. Have appearance of a full, round duck body, ride perfectly and wind keeps them moving. The 6 inch cedar keel waterproofed, glides inside body to float it. Balancing device attached makes tipping impossible.

Stock No.	Mfr's. No.	Type	lb Dos.	Cat. List EACH
2K 8311	2	Sprig	4½	▲$0 75
2K 8312	3	Mallard	4½	▲ 75

One dozen in a bag, four females and eight males.

Deeks Rubber Decoys

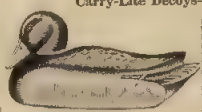


Self inflating, compact, tough, lightweight, lifelike in size and color. You shake out a Deek and toss it on the water. It inflates instantly. An chore and cords fall out without tangling. A dozen may be carried in the pocket of a hunting jacket. Made of natural latex rubber. They are non puncturable at normal ranges, weights less than six ounces. Moulded in detail, in natural wild duck color. Weather vane nose, ably s the wind. Rust proof metal rigs and stem. Serves as keel to insure perfect balance.

Stock No.	Type	lb Doz.	Fact. List EACH
2K 8325	Mallard	4½	▲$1.66
2K 8326	Pintail	4½	▲ 2.06

One dozen in a carton.

Carry-Lite Decoys—Molded



Manufactured by molding process making it possible to produce natural reproduction of the feathers and lines of the actual duck. No weights are needed for balance. Carry-Lite decoys cannot sink regardless of how many times the water has shot into them. They are artistically and realistically painted as a dead fowl with waterproof paint. Glass eyes.

Stock No.	Mfr's. No.	Type	Approx. lb Doz.	Fact. List EACH
22K 8307	700	Mallard	15	▲$1 87
22K 8308	701	Sprig-Pintail	15	▲ 1 87

One dozen in a carton, assorted 8 males, 4 females.

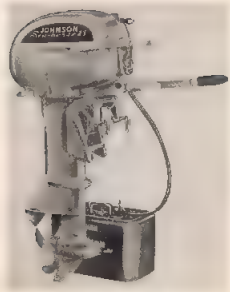
Feather-Lite Duck Decoys—Tenite

Made of super-tough tenite for long, hard service. Light weight, easy portable. Six male, six female. Factory painted heads an exclusive feature. 4 right, 4 left, 4 straight. Equipped with McGuire stabilizer for natural swimming action in choppy water, tide or current. Built for years of service.

Stock No.	Type	lb Doz	Fact. List EACH
2K 8302	Mallard	6	▲$3 0
2K 8303	Sprig	6	▲ 2 50

One dozen in a carton

▲ We do not break cartons



Left Johnson's newest Sea-Horse weighs only 85 pounds, develops 25 h.p. Below. The little 31-pound 2½ h.p. twin

JOHNSON MOTORS

Scheduled for its first public showing at the New York Show is the new Johnson Sea Horse 25. This new 25 h.p. model, feature-packed and value-priced, brings deluxe outboarding within the reach of all outboard enthusiasts.

Its wide range of speeds from trolling to over 30 m.p.h. is revolutionary in the outboard motor field. Its low weight of 85 pounds means more power per pound than has ever before been offered by any outboard manufacturer.

A new synchro-twist grip speed control conveniently located on the steering handle synchronizes both spark and throttle. There is no separate timing lever. Gear shift control (neutral-forward-reverse) and the separate 6-gallon Mile Master fuel tank, so successfully introduced by Johnson on their Sea Horse 10 Model, are standard features of the new 25.

The Sea Horse 25 brings a new starting ease to bigger horsepower models. There's an oversized starting drum, a deluxe ready-pull starter, improved carburetion and a new waterproof magneto. An automatic limitation to prevent flooding at starting or running speeds has also been engineered.

A smart instrument panel on the front of the powerhead puts all controls at the fingertips of the operator. The Gear Shift Control lever is located at the side of the power head for convenient operation.

The streamlined lower unit of the Sea Horse 25 is designed to closely enclose the inside bearings and shafts so as to make the thinnest possible gear case for lowest resistance through the water. This has been done without any sacrifice to inner strength and durability. The drive-shaft casing and exhaust pipe have been combined in a strong and rigid truss to provide permanent alignment of the power head with the gear case.

Correct vertical adjustment of the motor on the transom of the boat can be made easily and quickly without the use of tools because of a newly designed Quick-set thrust socket.

Simplicity of operation, split-second acceleration, power to move heavy loads, use of ball and roller bearings, and advanced cooling system, convenient hand holds for easy carrying, salt water protection, Hy pond oil lubrication in the gear case, forged steel connecting rods and a counter-balanced crankshaft are more of the highlighted features of the Sea Horse 25.

Three other models, all alternate firing twins, complete the Johnson line for 1951. All have a glossier, baked-on enamel finish in the traditional Johnson green.

The Sea Horse 2½ weighing but 31 pounds is a favorite fishing motor and is also used extensively as auxiliary power. The Johnson 5 with its Neutral Clutch and no-shear-pin features so successfully introduced last year finds great favor with the fisherman because of its all-around performance and slow trolling speeds.

The Johnson Sea Horse 10, with Gear Shift control and the separate 6-gallon Mile-Master fuel tank, has been tremendously popular because of its maneuverability and outstanding performance at either high or low speeds.

Johnson, because of the wide range of performance of each of its models, has been able to cover every outboard need with only four models. The four Johnson motors, ranging from 2½ to 25 horsepower, cover the widest possible range of outboard motor performance and constitute a modern line.

CHRIS-CRAFT OUTBOARDS

Chris-Craft Outboard Motors, having doubled the size of its modern plant at Grand Rapids, Mich., is now in full-scale production of Chris-Craft 5½ h.p. and 10 h.p. outboard motors.

Both are carefully designed and built to provide the widest possible range of outboard motor performance—from slow trolling to fast top speeds. They have been precision manufactured from finest materials for complete dependability and long life.

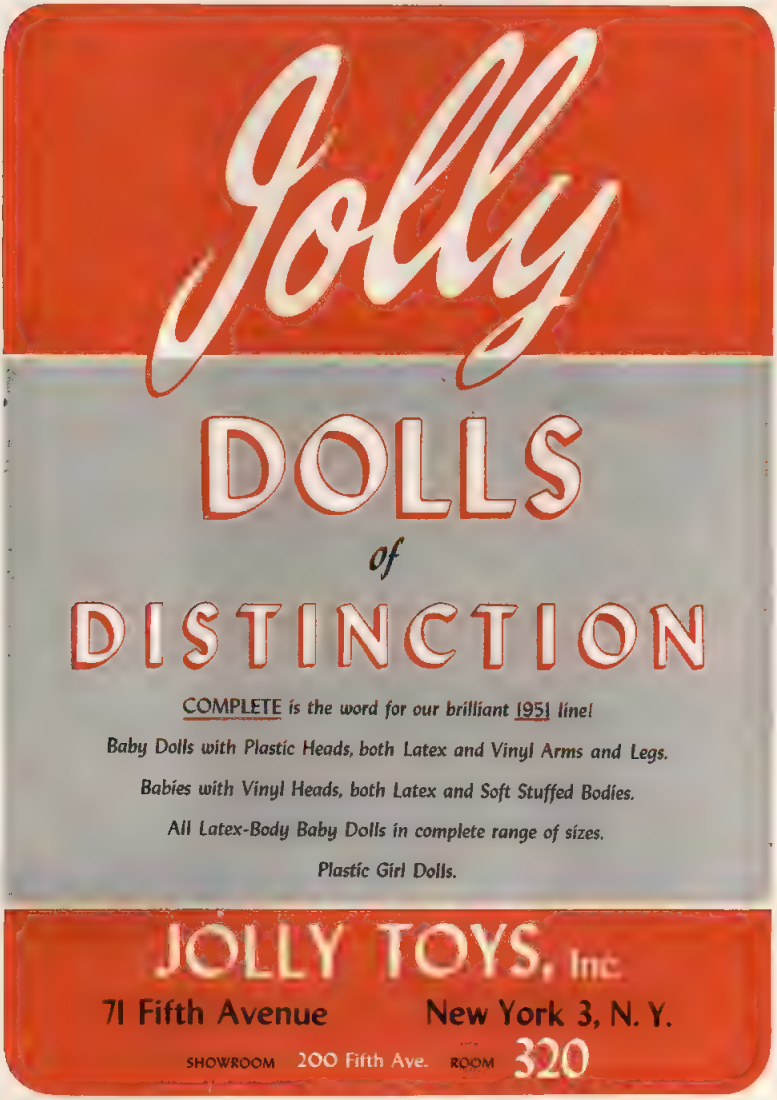
The 5½ h.p. Model J is an alternate-firing twin with 9.42 cubic inch displacement, develops a full 5½ horsepower, even when under heavy load, and weighs 46 pounds. Some features of this motor are an anti-friction, ball-bearing starter, flood-proof-type choke, selective steering adjustable in a complete range from easy-touch operation to automatic helmsman control for a set course; a 360-degree swivel with cam-operated lock in reverse, and a simplified control panel.

Other outstanding features are removable and replaceable major bearings, a streamlined, one-piece underwater unit designed for minimum cavitation and cast out of high grade aluminum alloy that is heat-treated for extra strength; and a Monel metal propeller shaft. All aluminum parts are alodined to anchor the finish and protect the aluminum, especially against salt-water corrosion.

The 5½ assures positive, split-second starting. A combination of extreme smoothness and whisper-quiet operation, especially at idling speeds, makes the motor ideal for fishing. Its dependability, ease in handling, quick deceleration without stalling and flexibility in a wide range of speed, from trolling to fast cruising, add to the motor's unsual all-around performance.

The newer 10 h.p. Model K is also an alternate-firing twin with 19.94 cubic inch displacement and weighs 72 pounds. Features of this motor include anti-friction (needle and ball) bearings throughout; positive starter assembly with rewinding rope; drop-forged alloy steel crankshaft and connecting rods (with double row of needle bearings to prevent cocking); aluminum alloy lower units; one-piece cylinder block, heat-treated for extra strength; Mechanite cylinder liners; reed valves; flywheel, machined inside and outside for perfect balance; vane-type water pump; spark plugs and magneto shielded from spray and solid water, yet with proper ventilation to prevent condensation; selective steering.

Chris-Craft's 10 h.p. Commander starts easily, accelerates quickly, and is easy to service


Jolly
DOLLS
of
DISTINCTION
COMPLETE is the word for our brilliant 1951 line!
Baby Dolls with Plastic Heads, both Latex and Vinyl Arms and Legs.
Babies with Vinyl Heads, both Latex and Soft Stuffed Bodies.
All Latex-Body Baby Dolls in complete range of sizes.
Plastic Girl Dolls.
JOLLY TOYS, Inc.
71 Fifth Avenue
New York 3, N. Y.
SHOWROOM 200 Fifth Ave. ROOM 320

"MYSTERE" SILHOUETTE WRIST WATCH

Light as a feather, distinctive in design—the "Mystère" Silhouette has both elegance and accuracy. Made by Juvenia, famous manufacturers of fine watches since 1860. An outstanding watch of the season to compliment a woman's or a man's wrist. Vivid Red hands on the Jet Black center's rim show the time clearly. Back and face are transparent and unbreakable. Has 17-jewel movement. Lustrious Black suede strap. Nationally advertised in leading magazines. Cased and timed in Switzerland.

Stainless Steel.
Retail $71.50.
112W145 ..... EACH **$37.95**

Yellow Gold Plate. Retail $80.60.
112W146 ..... EACH **$45.10**

Roy Rogers—a real western-looking watch. A treat for any youngster who follows the thrilling adventures of America's favorite cowboy hero. Roy Rogers is pictured on the dial riding his famous horse Trigger. Western style strap with Texas type fittings. Small size guaranteed American made movement. Non-shatter crystal. Bright, chrome-plated case with steel back. A wrist watch with great possibilities for volume sales. In handsome presentation box. Retail $4.95.
118W142 ..... EACH **$3.25**

LADIES' WATCH BY "CENTRAL"

17-Jewel. 10K yellow rolled gold plated case with stainless steel back. Black silk cord with yellow trimmings to match case. High dome crystal. Display boxed.
113W169 ..... EACH **$14.60**

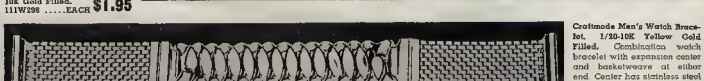
As above: Complete with matching 1/20-10K gold filled link bracelet with adjustable buckle.
113W168 ..... EACH **$15.95**

As above: Complete with matching gold filled, stainless back expansion bracelet.
115W167 ..... EACH **$17.25**

Men's fine quality, 17-jewel water-resistant and shock-resistant wrist watch. Has sweep second hand, radium figures and hands. Nickel chrome steel back case with Gray leather strap and matching buckle. Specially priced on the basis of a very special purchase—while they last!
1W1050 ..... EACH **$18.95**

Forstner Komfit Ladies' Watch Bracelet. 1/20-12K Yellow or white Gold with stainless steel Lining. Fit almost all wrists without alteration.
Retail $6.35.
111W294 EACH **$2.95**

Craftmode Ladies' Watch Bracelet, 1/20-12K Yellow Gold Filled basketweave ends with expansion center. Center has stainless steel back. Retail $4.25.
111W301 ..... EACH **$1.88**
As above: All expansion, 1/20-10K Gold Filled.
111W298 ..... EACH **$1.95**

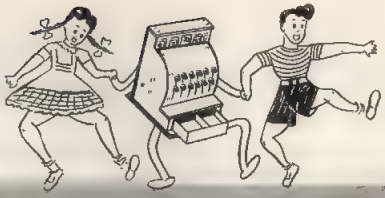


Craftmode Men's Watch Bracelet. 1/20-10K Yellow Gold Filled. Combination watch bracelet with expansion center and basketweave at either end. Center has stainless steel back. Retail $5.95.
114W229 ..... EACH **$2.25**

Craftmode Men's Expansion Watch Bracelet. 1/20-10K Yellow, Pink, or White Gold Filled expansion center with stainless steel back. Genuine leather ends in 3/8", or 3/4". Suggested retail $3.95 each.
114W228
PER CARD OF 6 **$4.50**

Craftmode Men's Expansion Watch Bracelet. 1/20-10K Yellow Gold Filled. Stainless steel back. Link design is an achievement in artistic simplicity. 3/8" or 3/4" ends.
Retail $4.25.
114W230 ..... EACH **$1.88**

RING THE BELL!



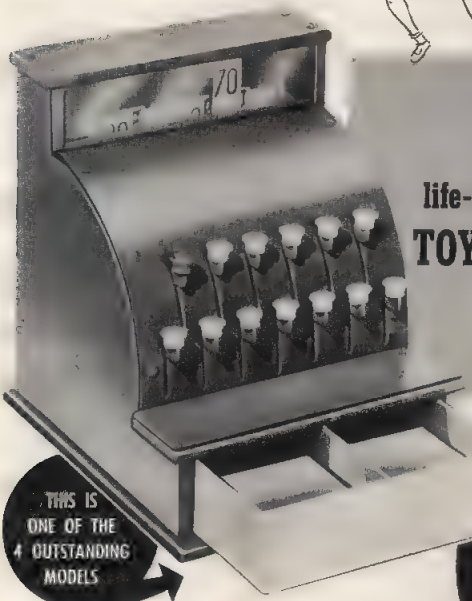
KAMKAP'S

4 brightly-colored life-like, action-mechanism

TOY CASH REGISTERS

for 1951

priced to sell from $1.98 to $4.98



THIS IS ONE OF THE 4 OUTSTANDING MODELS

DON'T MISS SEEING KAMKAP'S MANY OTHER TOY SENSATIONS:
TOY CLEANING SET
ROLLER SKATES
TABLE AND CHAIR SET
BLACKBOARDS
AND MANY OTHER OUTSTANDING ITEMS

They're all heavy gauge steel, with smooth action mechanism — drawer opens automatically and bell rings.

Model #200 (illustrated) comes in fire engine red. Press keys, numbers show behind plastic window, drawer opens, bell rings. Keys from 1¢ to $1.00; also "no sale."

The wide price range "rings the bell" on your register too — with cash sales!

AT THE TOY SHOW
MARCH 5 TO MARCH 16
HOTEL McALPIN
SPACE 863

AT OUR PERMANENT DISPLAY
200 FIFTH AVENUE
SPACE 636-612

KAMKAP, INC. 200 FIFTH AVENUE, NEW YORK

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MOVIEGRAPHS

KEYSTONE
DOLL HOUSES
WITH TURNTABLE
Patent Pending

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GAS STATIONS

KEYSTONE
MECHANICAL TOYS

WHAT'S NEW?
Look in at our Exhibit
Room 442
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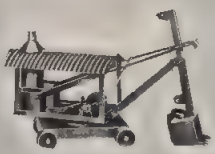
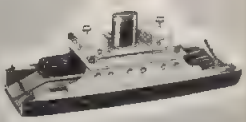
KEYSTONE
FIRE DEPARTMENTS



KEYSTONE "RIDE 'EM" TOYS
THE TRADE MARK "RIDE 'EM"
IS REGISTERED IN U.S. PATENT OFFICE



COMPLETE LINE
MECHANICAL AND
SAIL BOATS

Keystone

KEYSTONE MFG. CO., BOSTON, MASS.
NEW YORK SHOWROOM: 200 FIFTH AVENUE

Senator LeBlanc Plans Powerful Scribbles Promotion

This young lady seems quite pleased with her own artistic talents.

The presentation of the new and expanded line of "Scribbles" dolls at the Toy Fair, is the subject of much interest and speculation throughout the industry Many of the country's foremost toy and novelty merchandisers, as well as many advertising and merchandising men, who are in no connection with the industry, plan to attend the "Scribbles" presentation, at the Hotel New Yorker. They want to see how Senator Dudley J. LeBlanc's flair for showmanship and merchandising genius are reflected in terms of a magnificently presented and dynamically sold line of super "plastic" dolls They are interested in his plan for promoting "Scribbles" dolls on approximately 750 radio stations, and they want to see how his localized advertising and merchandising programs are to be carried out.

The Senator is a man of quick decision It took only three weeks for him to convert conviction into action In that short space of time, he first saw the "Scribbles" doll being demonstrated, purchased the plant, dismantled the operation, sent a fleet of his own trailer trucks to New York to transport the equipment, and had production lines rolling down in Lafayette, La. That the Lafayette community is buzzing with excitement over the setting up of a new local industry, and the scheduled employment of up to three hundred women, is putting it mildly.

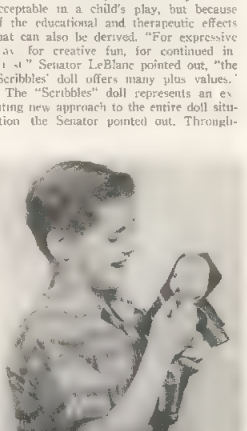
At the time that Senator LeBlanc bought controlling interest in the Scribbles business, only three basic models were in production. Boy, Girl, and Clown. Recognizing that all publicity being given to the Korean action and development of new defense weapons has turned the interest of the nation's forty and more million children, of toy age, to "military play," he asked Elvy Kalep, Scribbles Company President, to design a line of military dolls.

The success which she had with her Parachute Doll, during World War II, the fact that she was familiar with the anticipated trend, resulted in her quickly developing a line of military dolls that have great youngster appeal

"I am accustomed to working fast," the Senator said, "but I must say that Elvy Kalep is a true creative genius. The models she presented to me, in only a matter of a few days, won my whole-hearted approval particularly after I had them viewed by teachers, educators, parents, and children, and observed their enthusiastic reactions. When they persisted in asking 'Where can I buy them?', I knew that our line of military 'Scribbles' dolls was a natural In addition to the Boy, Girl and Clown, styles the line now includes these new dolls G I., Wac, Sailor, Wave, Pilot, and Co-Pilot" In addition, he continued, "we hope to also present four new 'Scribbles' animals at the Toy Fair, such as—Monkey, Bunny, Kitten, and Teddy Bear "

The Senator is enthusiastic about "Scribbles" dolls not only because they are so acceptable in a child's play, but because of the educational and therapeutic effects that can also be derived. "For expressive play for creative fun, for continued interest" Senator LeBlanc pointed out, "the 'Scribbles' doll offers many plus values."

The "Scribbles" doll represents an exciting new approach to the entire doll situation the Senator pointed out. Throughout the ages, story telling and the acting out of stories have represented a major form of entertainment for both young and old. In a great sense, "Scribbles" dolls can be said to be "puppet" dolls because their faces can be made to realistically interpret the personalities being presented or discussed.



Proving that boys have creative talent, too.

Boys and girls, all young people, as well as the young in heart, enjoy the realism, the flexibility, the almost magic convertibility of "Scribbles" dolls because they fit in with their ideas of imaginative play and recreation

It should be noted, in the case of the "Scribbles" doll, that eyes, nose, mouth, are not indicated on the face. Instead, the contour of the doll's face is pressed in smooth, heavy plastic, which serves as a perfect scribbling surface. It is called "the doll of a thousand faces" because by merely drawing on a face and then wiping it off with tissue, the doll can be made to laugh, or cry, or sleep, to evidence every human emotion

To draw a face, to rub it off with tissue, to draw still another face, takes but a minute's time. Each "Scribbles" doll comes with a shoulder bag, filled with four, assorted-color, non-toxic crayons that are guaranteed safe for children

The fact that an infinite variety of faces can be drawn on "Scribbles" dolls to represent the entire gamut of human emotion, the fact that these dolls can be dropped and thrown and abused and can readily be cleaned, makes them a favorite, not only with children, but, particularly, with parents and teachers The "Scribbles" face is of plastic, while the skin and garments of each doll are made of plastic-film covered cloth.

The "Scribbles" doll has a definite therapeutic value in that it offers diversional activity to the child while undergoing medical treatment It can be used to relieve tension and home sickness, as well as help orient the child in a new environment, because it helps develop confidence through performance in play

It is interesting to note, in this connection, that at the time this item was written, a letter was received from the Recreation Service of the Veterans Administration. This letter indicated that samples of "Scribbles" dolls were to be sent to a number of Veterans hospitals for testing as to patient interest and suitability in the Veterans Administration hospital recreation program.

FAMOUS KEYSTONE
MOVIEGRAPHS

KEYSTONE
DOLL HOUSES
WITH TURNTABLE
Patent Pending

KEYSTONE
GAS STATIONS

KEYSTONE
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SEE OUR
NEW
PULL TOYS
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KEYSTONE
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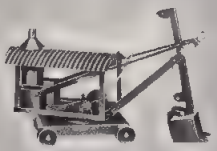

KEYSTONE "RIDE 'EM" TOYS
THE TRADE MARK "RIDE 'EM"
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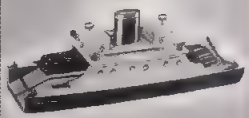


COMPLETE LINE
MECHANICAL AND
SAIL BOATS

Keystone

KEYSTONE MFG. CO., BOSTON, MASS.
NEW YORK SHOWROOM: 200 FIFTH AVENUE

So feature the

NEW PLASCO

ALICE IN WONDERLAND

Reg. U.S. Pat. Off.

TEA TIME DISHES

In Brilliant Tea-Party Boxes

- Molded of plastic, but looks like real china in heavenly blue, with authentic fluted pattern.
- Each piece embossed in white with a favorite character from Alice in Wonderland — Alice, the Queen, the Mad Hatter, etc.
- Boxed in colorful Tea-Party self-displayer package.
- In attractive assorted sets.

PLASTIC ART TOY CORP. OF AMERICA, CARLSTADT, N. J.
NEW YORK SHOW ROOM: ROOM 965, 200 FIFTH AVENUE

Keystone

Fire Boat

16 inch flat bottom fireboat finished in red hull, decorated ivory cabin and bridge. Real plunger pump shoots water from reservoir in hull. Will float.

Stock No.	Mfr's. No.	Lb Dozen	Cat. List EACH
4H 2248	985	9	$1.35

One dozen in a carton

Lighter with Tug

12 inch cargo lighter finished in green hull, buff deck, decorated yellow walls, green roof. Roof of lighter loose for access to cargo storage space; slide doors in lighter walls. Attached is 6 inch tug in red hull buff deck white cabin. Will float.

Stock No.	Mfr's. No.	Lb Dozen	Cat. List EACH
4H 2251	967	18	$2.30

One dozen in a carton

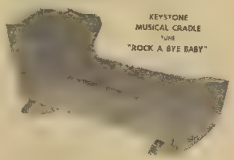
Fishing Boat

19 inch fishing boat with open cockpit. Finish in green hull, ivory deck, white cabin. Equipped with two soft colored floating fish, fish pole with magnetic hook, cabin and side lights.

Stock No.	Mfr's. No	Lb Dozen	Cat. List EACH
4H 2249	932	6	$1.15

One dozen in a carton.

Musical Cradle

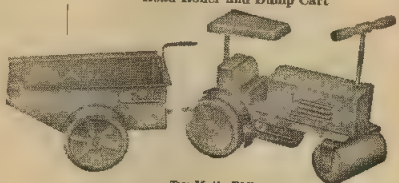


Swiss music box plays "Rock-A-Bye Baby". All wood open style colonial cradle in wing bank design. Finished in natural maple

Stock No.	Mfr's. No.	Lgth. In.	Lb Each	Cat. List EACH
4H 2266	765	22½	8	$3.75

One in a carton.

Road Roller and Dump Cart



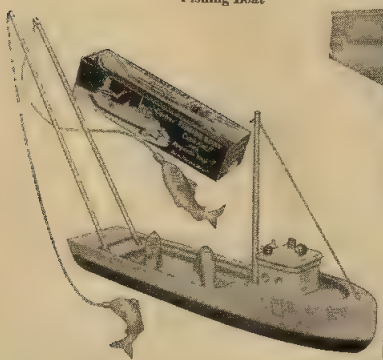
Tru-Matic Riding Toy

Combination road roller and cart with dump action. Heavy steel construction. No sharp edges. Direct steering action from handle bars. Motor hood, fenders and dump cart painted bright red. Handle bars, roller and wheels are yellow. Road roller size, 18x18x8 inches. Dump cart, 18x12x8 inches. Seat adjustable from 11½ to 13½ inches

Stock No.	Mfr's. No.	Lb Each	Cat. List EACH
4H 2381	450	12	$11.10

One in a carton

Fishing Boat



Fishing boat with open cockpit, 16 inch raised deck. Finished in red water line, blue top sides, ivory deck, white cabin. Equipped with two magnetic fish poles, 4 colored flexible floating fish, side lights, head light and mast.

Stock No.	Mfr's. No.	Lb Dozen	Cat. List EACH
4H 2250	973	15	$2.35

One dozen in a carton

Bull Dozer and Snow Plow

Tru-Matic Riding Toy

This combination toy is of heavy steel construction. Has a direct steering action from handle bars. Serviceable toy for indoor or outdoor play. Seat adjustment from 11½ to 13½ inches. Motor and fenders finished in red snow plow handle bars, seat and wheels are blue. Size 21x6x12 inches.

Stock No.	Mfr's. No	Lb Each	Cat. List EACH
4H 2380	800	12	$10.00

K = the Best in Cap Pistols

NO. 205 GRIZZLY

NO. 209 BRONCO

NO. 227 EAGLE

NO. 216 DEPUTY

NO. 407 BUCK

NO. 310 KIT CARSON

WIDE BELT HOLSTER SETS

NO 150 PERFORATED ROLL CAP

NO. 108 DISC MAMMOTH CAPS

NO. 6 MOUNTIE

NO. 5 BOBCAT

NO. 4 WILD WEST CUFF SET

NO. 2 WILD WEST SPUR SET

NO. 4 HAWKEYE

NO. 200 SQUIRT WATER PISTOL

The famous K on a cap pistol is the mark of the fastest-selling toy pistol on the market . . . for when you say "cap pistol," you're saying Kilgore. Over thirty years of satisfying the youngsters of America has taught us more than a little about meeting their demands.

The result is the famous Kilgore line with emphasis on the *exclusive* and *realistic* six-shooter westerns. These pistols are the favorites of youngsters everywhere . . . always in top demand because of their true western design and realistic shooting action using the 6-shot Disc Mammoth Caps.

And the Kilgore line has YOU in mind. Its ideal retail price spread, from 59c to $2.50, gives you a pistol at a price to meet every sales possibility.

One of the "sweetest" items of toy western gear is Kilgore's polythene holster sets. Youngsters love their "fast-draw" feature and massive western design. Parents appreciate the attractive prices and the fact that these holsters are practically indestructible.

If it's your aim to sell top-notch merchandise at full profit—then look to Kilgore for cap pistols, caps, holster sets, cuffs, spurs and water pistols.

No. 206A

WING-GO

Get ready for Spring with the amazing flying toy that ZOOMS a 6" plastic propeller high in the air at a pull of a string. Easy to operate. Average maximum altitude about 150 feet String automatically rewinds. Made of plastic—very colorful. Each Wing-Go on sales-producing counter card. Extra propellers available.

THE Kilgore MANUFACTURING CO.
WESTERVILLE, OHIO U.S.A.

K

FACTORY OFFICE
Room 14-102
Main, Merchandise Mart
CHICAGO

WORLD FAMOUS PRECISION MADE CAMERAS

The KINE EXAKTA V

BUILT-IN INTERCHANGEABLE VIEWFINDERS

The 1950 Exakta serves as two cameras while you buy only one . . . Two built-in, interchangeable viewfinders focus through the lens . . . Reflex Hood and Penta-prism Eye Level Sport Finder . . . You switch in a jiffy from one to the other! The distinguished Kine Exakta is now available in a brilliant new convertible model . . . with all the advanced features, precision, design, and superior performance you expect from a Kine Exakta! Ihagee Camera Works, Dresden, is proud to present the most outstanding 35mm single lens reflex to bear the famous EXAKTA name. Here is a camera of such breath taking design that it must be seen to appreciated, how far it exceeds any camera ever known before. Imagine being able to switch, instantly, from waist-level reflex focusing to eye-level reflex prismatic focusing for sport and action photography . . . viewing through the lens, all the time! This is proof, indeed that the NEW KINE EXAKTA is the most versatile 35mm reflex camera in the world. Comes equipped with a ZEISS TESSAR T f/3.5 coated lens. Retail 180.00 plus 19.50 F.E.T. **No. 1CKE35.** Dealer's each **129.50.** less 2% net

(less Penta-Prism Finder) **127.01**

(Plus 19.50 Federal Excise Tax)

KINE EXAKTA ACCESSORIES

Penta Prism Eye Level Prismatic Viewfinder. Retail 60.00 plus 8.50 F.E.T **No. 1CKE50.** Dealer's each 45.00 Less 2% net **44.30** plus 8.50 F.E.T

Genuine Leather Everready Carrying Case. Retail 12.50. **No. 1CKECC.** Dealer's each **8.32.** Less 2% net **8.16**

Set of 3 Extension Tubes with 2 Adapters Retail 17.50 **No. 1CKE22** Dealer's each net **12.50**

Flashgun for Kine Exaktas. Retail 8.90 **No. 1CKE-FG.** Dealer's each **5.53.** Less 2% net **5.82**

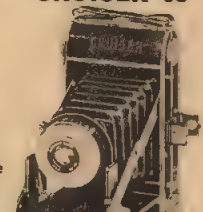
ADOX CANDID CAMERA

The ADOX is a precision 35mm Candid Camera with built-in flash synchronization. - Has a fine German fast f/2.9 lens and a multispeed shutter with speeds from 1/25th to 1/300th. Variable focusing and automatic film counter — Also equipped with a double exposure prevention device. — Chrome finish with Morocco leather. — Takes 18 or 36 exposures on 35mm film. Uses standard LEICA Cartridges. This camera a favorite the world over Popular Priced — Retail 29.95 **No. 1C-A35.** Dealer's each **23.85.** Less 2% net **21.80**

Eveready Case. Retail 5.50 **No. 1C-A35C.** Dealer's each **3.67.** Less 2% net **3.60**

Flashgun. Retail 8.90. **No. 1C-A35FG.** Dealer's each **5.93.** Less 2% net. **5.82**

CRUISER 63



- **F/6.3 ANASTIGMAT COATED LENS**
- **SYNCHRONIZED FOR FLASH**
- **OPENINGS FROM F/6.3 to F/22**
- **ALL ALUMINUM CONSTRUCTION**

Outstanding value in Folding Cameras, and priced for volume sales Has no competition for a Camera with its features in Lens and Shutter Equipment, Construction, Styling and Efficiency in Operation Varlo type shutter with speeds ranging from 1/25 to 1/125 and bulb Takes 8 pictures 2¼ x 3¼ on 120 film Variable focusing mount from 3 feet to Infinity Automatic self-erecting door Built in pressure plate and spring film clips Spring-latch automatic locking feature All exterior parts highly polished Self-erecting de-magnifying eye level view finder. Body release push button shutter Two built-in tripod socket on door and in knob—for either tripod use or flash attachment. Retail 29.95 **No. 1CAP163.** Dealer's, each **20.00.** Lots of 3, each **19.00.** Less 2% net **18.62**

Genuine leather, Eveready Carrying Case. Innerlined, comes with extra shoulder strap Retail 5.50 **No. 3CAC165.** Dealer's each **3.30.** Less 2% net **3.23**

Flash Unit. Made especially for the Cruiser "63" The plug is designed to be used on Cruiser's Prong linking up with its internally synchronized shutter. Complete with accompanying brackets. Retail 4.95. **No. 2CAF164.** Dealer's each, **3.35.** Lots of 3, each **3.17.** Less 2% net **3.10**

NEW EUMIG 8mm MOVIE CAMERA

World Famous German Made Precision Construction

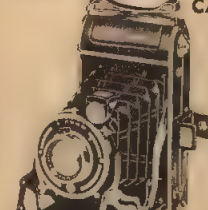
- **F/1.9 12.5MM ANASTIGMAT COATED UNIVERSAL FOCUS**
- **CABLE RELEASE FOR SINGLE FRAME EXPOSURE**
- **PRECISION, CLOCK WORK MOTOR CONSTRUCTION, ENABLES LONGER SHOTS IN ONE WINDING**

Here is the finest, most accurate movie camera in the world. It represents the very latest technical improvements, and marks a very decided advance in movie camera design. Will produce consistent results for superior to those of any movie camera now on the market. Only in the Eumig has every possible factor bearing on exposure been taken into consideration and automatically compensated for. You will be thrilled with the striking beauty of the Eumig as you proudly display it to your customers. A light touch of the Automatic Aperture Control with your finger automatically sets the camera lens to the correct aperture for the given light condition! This added feature increases your camera shooting ease and pleasure Shutter speed control coupled with photo-electric exposure meter . . . correct f stop insured at any speed from 8 frames per second to 32 frames per second Unconditionally guaranteed for one year. Retail 139.50.

No. 1C-E8. Dealer's each **104.63.** Less 2% net **102.54**

CASE FOR ABOVE. Retail 10.00. **No. 1C-E8C.** Dealer's each **7.50** Less 2% net **7.35**

PRESTO 120 FOLDING CAMERA



Synchronized For Flash Precision Made Rugged Body Construction

- **BUILT-IN FLASH SYNCHRONIZATION**
- **TWO OPTICAL VIEWFINDERS**
- **BODY SHUTTER RELEASE**
- **PRECISION CONSTRUCTION**
- **SCHNEIDER F/4.5 LENS**

Smart styling, precision construction, smooth operation - superb picture-taking combination. A needle sharp f4.5 Schneider lens in a double action shutter plus a rigid all metal camera finished in jet morocco leather and gleaming chrome. Priced right Easy to use Takes snapshots 2¼x3¼ size. Folds compactly Looks and feel of a fine imported German camera. All models feature built-in flash synchronization, two optical viewfinders, and body shutter release. The Presto 120 is the finest value in folding cameras ever offered Complete with F 4.5 Schneider lens 4-speed shutter plus bulb Built-in slef-timer Retail 34 75. Plus 4.35 F.E.T

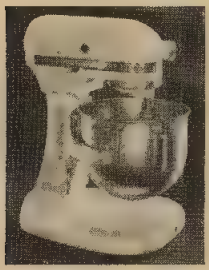
No. 1CAP45. Dealer's, each **23.17.** Lots of 3, each **20.85.** Less 2% net **20.43** Plus 4.35 F.E.T.

Flashgun. Retail 8.90. **No. 1CAP45FG.** Dealer's each **5.93.** Less 2% net **5.82**

EVEREADY CASE. Retail 6 75. **No 1CAP45C.** Dealer's each **4.50.** Less 2% net **4.41**

KitchenAid Electric Appliances

Food Mixer



Without Juice Extractor

Kitchen Aid is distinguished from ordinary mixers by the completeness of its performance. It assumes countless tasks at the snap of a switch. Model KSA for larger families on the farm or metropolitan homes. "Planetary Action", exclusive on Kitchen-Aid, eliminates necessity of turning the bowl. Beater is carried around stationary bowl while beater turns on its own axis in the opposite direction.

Motor—Universal type 1/6 H. P. Self lubricating motor bearings for life of machine.

Power Application—Direct through steel cut gears.

Speeds—Ten definite speeds (and intermediate speeds) controlled by electrical governor, assuring full motor power at all times.

Attachment Hub—Power for driving different attachments supplied through attachment hub on front of transmission case. Speed of hub controlled by speed change lever. No power adapter necessary.

Construction—Zinc die castings. Baked-on white enamel.

Standard Equipment—5 quart tinned steel mixing bowl, wire loop whip, one flat beater, pastry knife.

Dimensions—Height 17 inches, base 11x12 inches.

Stock No.	Mfr's No.	lb Each	Fact. List EACH
44G 5820	KSA	37	$105.00

One in a carton.

Food Mixer

Without Juice Extractor

Full, exclusive "planetary action" assuring thorough coverage of the stationary bowl, positive control and full, constant, quiet power on all speeds, simplified front vision "speed guide", built in power unit for easy operation of every attachment.

Motor—Universal type. Ultimate power ¼ H P

Bearings—Lubricated for life of machine.

Power Application—Direct through steel or bakelite gears.

Speeds—Ten definite speeds (and intermediate speeds) controlled by electrical governor, assuring full motor power at all times.

Planetary Beater Action—Beater travels around bowl in one direction, while turning on its own axis in opposite direction.

Attachment Hub—Power for driving different attachments supplied through attachment hub on front of transmission case. No extra power adapter necessary.

Construction—Zinc die casting, finished in white baked enamel, bright metal parts either chrome plated or stainless steel.

Standard Equipment—One 3 quart, clear vision, heat resisting stationary glass bowl (which screws rigidly into base in one quarter turn), all purpose beater for mixing beating whipping and making pastry and juice extractor of glass and plastic.

Stock No.	Mfr's No.	Ht. In.	Base In.	lb Each	Fact. List EACH
44G 5810	3C	18½	7½x12½	24	$59.50

One in a carton.

Household Food Mixer

Without Juice Extractor

A kitchen aid has the power to mix through the heavy tasks as well as the light easy ones. For small family or large

Specifications

Motor—Universal type Ultimate power 1/6 H.P. Motor bearings are self lubricating and require no further attention under normal use as a household machine.

Power Application—Direct through steel cut gears.

Speeds — Low, slow, medium and high, or any desired speed between these settings.

Beater Action — Full planetary. Beater travels around bowl in one direction while turning on its own axis in opposite direction.

Attachment Hub—Power for driving different attachments supplied through attachment hub on front of transmission case. Speed of hub controlled by speed change switch.

Construction—Zinc die castings. Baked-on white Duflex finish.

Standard Equipment—One 4-qt. tinned steel mixing bowl, one wire loop whip, one combination flat beater, pastry knife.

Stock No.	Mfr's No.	Ht. In.	Base In.	lb Each	Fact. List EACH
44G 5814	K4B	14	8x14	31	$92.50

One in a carton.

Coffee Mill

By far the most convenient of all home coffee grinding appliances. With a mere flip of the switch, freshly ground coffee pours from the chute into the convenient graduated measuring glass. The regulator enables you to control the grade of grind.

Specifications

Standard Equipment—Complete unit with graduated receiving glass. Ready to attach to any convenient electrical outlet.

Glass Container—For storage of coffee bean supply. Shows at all times amount on hand. Holds 1¼ pounds of bean coffee.

Grind Regulator—Finished in red lacquer. Enables user to select one of 16 grinds, according to personal taste, by simple turn.

Graduated Receiving Glass — Accurately measures coffee as ground.

Construction — Zinc die casting. Chrome alloy grinding parts.

Motor—1-8 amperes Universal type for AC or DC current. Motor bearings self lubricating.

Stock No.	Mfr's. No.	Finish	Ht. In.	Base Dia. In.	lb Each	Fact. List EACH
44G 5860	A9	Ivory	13	5	8	$24.50

One in a carton.

Soon we cleared St. Peter's Canal, gateway to the sea. This is the only canal east of Montreal and is the gateway to the Atlantic Ocean. It made our trip a hundred miles shorter than if we had passed directly into the Atlantic from Sydney Harbor.

To Halifax—and Home

The weather changed rapidly as we headed for Halifax. Heavy fog loomed on the horizon and soon enveloped us completely. We kept our fog horn blowing continuously. The bow watch is never pleasant in such weather. At two-minute intervals a long blast came from a queer looking little red box whose handle works like a bellows contraption. It poured forth a wild and wailing sound of protection for us as we felt our way through these fog-bound waters. However, at six in the morning there was evidence of clearing skies and we headed directly toward Halifax Harbor and the welcome sight of the first red buoy.

We moved up the channel of Halifax Harbor for several miles where we dropped anchor at the Royal Nova Scotia Yacht Club. The remainder of the day was beautiful but an unusual ring of darkened sky which appeared around the sun was not a good omen for the sea traveler on the morrow.

Clearing Halifax Harbor and into the Atlantic we had all the wind we wanted. The seas were rough and the breeze was on our quarter. We were doing a grand bit of sailing, and how Bowdoin did roar along! That evening under a bright moon in a cloudless sky the water piled up like soapsuds under the forefoot, and our wake looked for all the world like the milky way in a black sky. What a night for sailing! Labrador was behind us away to the north. We were headed home.

Next morning we made our landfall on Monhegan, cold and gray in the lifting fog, and then ahead of us were the green hills of Maine and the houses of Boothbay Harbor. Our northern cruise was over.

Yes, Bowdoin is a proud old ship, and we as her crew were proud of her. We were deeply grateful to her Skipper for his judgment and able seamanship, and we were doubly grateful for our safe return. Bowdoin has been a real pioneer of this Arctic region and what remains for her future is difficult to say, but I do know this: that as long as she remains afloat so will her Skipper remain on her deck peering ever forward into that horizon that speaks of Arctic ice and snows. They will remain inseparable.

☆ ☆ ☆

YANKEE OUTWARD BOUND AGAIN

(Continued from page 17)

without wetting her decks with solid water. Later, she raced through the Cape Cod Canal under canvas alone, a grand picture as she plowed along in a smother of foam. She departed from the New England fishing port in November bound to the westward around the world; eighteen months later she was back at Rocky Neck.

Captain Johnson has always made a point of departing and arriving at Gloucester at 2 p.m. Only once was he late, five minutes behind schedule, when the Captain, deep in conversation with a customs official below deck, failed to see the hand on the Gloucester clock. His secret of arrival has been to enter Massachusetts Bay with time to spare, jogging the last few miles finishing up in a burst of glory with everything set.

On her current voyage, Yankee's first stop is at Haiti in the West Indies. Then, on through Panama Canal, she heads for Galapagos, Easter Island, Pitcairn, Tahiti, Hawaii, Samoa, the Solomons, Philippines, Singapore, Netherlands Indies, Zanzibar, Laurenco Marques, Capetown, the West Indies again, and on north to Gloucester, logging some 40,000 miles in all. Her present crew, 23 hands all told, coming from ten States and Canada, include the Captain's wife Electa, and three other women. The youngest abroad is the Captain's fourteen year-old son Arthur who is to go as far as Siam where his eleven year old brother Robert will replace him so he can return to the States for his turn in school.

Yankee will arrive back at her Rocky Neck wharf Gloucester, at 2 o'clock, Sunday afternoon, April 27, 1952.

☆ ☆ ☆

BAHAMA CRUISING GUIDE

No yachtsmen who is bound for the Bahamas can afford to be without a copy of the new *Yachtsman's Guide to the Bahamas* published by Transportation Advertising Service, Inc., 3067 S. W. 37th Avenue, Miami, Florida, under agreement with the Development Board, Nassau, Bahamas.

Packed with valuable information, it includes charts of the various islands, data on pilotage, customs and immigration procedure.

STOP BOAT LEAKS COMPLETELY!

with amazing new rubber

SEALER "900"

- Makes an absolutely watertight seal.
- Being rubber, it expands and contracts.
- Withstands all weather conditions.

Here's a strong, adhesive rubber sealer that's *guaranteed* to stop leaks on bottom, transom, keel, skeg, stem, chines, etc.! Simply flow Sealer "900" into the open seams, or over leaky places, let dry and paint over. It's not necessary to remove old paint. Can also be used as an overall under-coater.

SEALER "800" FOR LARGER OPENINGS. A heavy-duty rubber sealer for use on larger craft. Ideal for use on deck seams, too. Will seal openings up to 3/8".

MOTOR SEALER "1000". For sealing two metal surfaces such as exhaust outlets and crankcases. It withstands high temperatures and is water resistant.

OUTBOARD MOTOR METAL MASTIC for sealing leaky gas tanks, cracked lower units, crankcases, piston heads, etc. Use it for stopping leaks in metal boats.

NON-SKID SAFETY WALK. Eliminates slipping accidents on decks, walks, stairways, ramps, ladders, docks, etc. Provides sure footing, wet or dry. Same material as used by our Navy.

Mfg. exclusively for us by MINNESOTA MFG. CO.

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MARINE PRODUCTS, INC.

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KLEPPER presents the NEW Unsinkable AERIUS for SAIL, PADDLE, or OUTBOARD

Air-tubes built within the hull of the gunwales make this newest KLEPPER FOLDBOAT more streamlined . . . more maneuverable . . . and UNSINKABLE!

PORTABLE . . . like all KLEPPER FOLDBOATS. Pack the AERIUS in its carrying bags for car, boat, or train travel. Easy to assemble in ten minutes . . . easy to launch . . . easy to pack up again!

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SKIPPER

Smooth planked economy - priced boats. Ideal for family use: 11½' model for motors up to 5 H P 13½' for motors up to 25 H P

15-FOOT
VACATIONER

Especially designed for motors developing 10 H.P to 50 H.P to give swift, smooth-planing performance in any water. Lap-strake construction for life-time use. 68" beam Plenty of room plus four seats

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BARBOUR BOATS INC.
NEW BERN, NORTH CAROLINA

All these features with

AR-KAM

Propeller shaft strut

Easy fitting perfect alignment—removable hub for bearing replacement—strength—replacement of either half, in case of damage, at half cost.*

To install, cut off to the desired length and angle, using the propeller shaft as a guide, and drill two holes for the bolts.

Made in six sizes, ¾ to 1¼, with or without propeller guard.

(*Less bearing)

For complete information write

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73 Chapel St., East Hartford 8, Conn.

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BY USING THE BAY CITY SYSTEM OF PREFABRICATION

Model 1531 Express 31' x 11' x 2' 6" Materialed to finest specifications. Designed to superb perfection Years, complete, including power and equipment, for as little as the $5,698 bracket. Down payment. $638

IT MAY BE REMEMBERED THESE UNCERTAIN DAYS THAT FROM 1941-1946, NO PERSONAL POSSESSION GAINED MORE IN SPIRITUAL OR INTRINSIC VALUE THAN A GOOD BOAT. THESE, BOTH POWER & SAIL, ARE STILL AVAILABLE FROM US FOR IMMEDIATE DELIVERY AT LOW PRICES BUT ACT NOW. Illustrated Catalog and Complete Information 25 cents Refundable.

BAY CITY BOATS, INC., Div. 1021, 304 State St., Bay City, Mich.

THE "CRUISINGEST" RACE

(Continued from page 35)

Sachuest Point, picked up a lone can buoy beyond, there to drop anchor in the calm of the harbor and snug down for the night in real comfort. Although hardly to be recommended as racing technic, all this could be classed as good method in cruising Unknown to us at the time, George C. Crocker's sloop Tango covered the 37 miles from Falmouth to Newport in seven hours one minute, corrected, taking Class One honors.

Set Course for Point Judith

Our accent on cruising had put us out of next day's race from Newport to Fishers Island, that is to say, unless we were to turn up at the starting line, eight miles distant, in time. But after we had picked free the swollen roll-hitches securing the riding light to its stay, turned a jib sheet end-for-end, plotted potential courses, monkeyed with the motor's ignition and a few other things, we found it inconvenient to get there. The skipper set a course for Point Judith

The wind had been coming out of the north when I first showed on deck but, instead of continuing clockwise as we'd feared, it had since obligingly backed up into the west. Not long after rounding Sachuest Point, we could spot some of the fleet off to the south of Brenton Reef, their sails dimly silhouetted against the Point Jude peninsula, while half way between tacked a sail more of our own footage, presently reckoned by Lambert as belonging to a Stadel 33-footer. Hilly's interest perked up. Who could object to an informal demonstration that you sailed the better boat?

A tack or two served to satisfy Hilly he had no wish to make a change with his own, and no doubt the skipper of the Stadel for his part felt the same way. The winds and tides off Point Jude, however, are rarely conducive to informal demonstrations, to say nothing of a somewhat tiresome breakwater that asks to be dodged. Next time we looked, the other boat was sailing free, headed Down East. Thereupon Lambert glanced to the south, to draw our attention to the sails of the new Yankee showing above the horizon.

Nothing more in the form of a sail till we approached the gut of water separating mainland and Fishers Island. Lambert handed me the glass to ask if I could make out a dinghy leaning between rail and cabin-top. Sure enough, it was there. As to where our old friend the 31-foot Kostick had been all this time we had no means of knowing. Our heading brought us off the Watch Hill Lighthouse first, by not much more than two or three lengths of a boat. Lambert called:

"Are you racing?"

Word came back that they were. Hilly looked a little disappointed. His only alternative from now on would be to keep respectfully out of her way. Thereupon we started the engine for the short remaining pull into West Harbor. Presently Kostick gave up the racing ghost and followed suit. First craft to be spotted as we headed in around the point turned up as the Yankee, and let me suggest she's a beauty. Irving Johnson, leaning over the rail, gave us a wave. Beyond at anchor rested Tango, which we later learned had again come through the winner, sailing the 32-mile leg from Newport in 5 hours 24 minutes and 13 seconds, corrected time.

A Stop-Over at New London

As for the nautical circus attending the Yale-Harvard boat races next day on a river literally smothered by boats, only a Ringling Brothers press agent could do justice to this amazing spectacle. That the Falmouth Yacht Club had displayed discernment in routing a race-cruise into a definite objective, we all agreed After the show was over Bobwhite carefully nosed her way five miles downstream along with the rest, there to drop anchor in early dark off Burrs Dock, New London. The race to Block Island would start from nearby Sarah's Ledge in mid-morning.

A race-cruise that so far had included a little of everything but racing in connection with our own involvement, would seem in all justice to deserve at least one leg of actual racing. This time, Hilly insisted, we'd do it. But he also neglected to take into account the fogs that can pour into the mouth of the Thames River from outside.

Despite the fog of that blanketed morning, we started out from anchorage, the yawl Sea Lady barely distinguishable ahead. Presently Sea Lady gently circled and crept slowly back to port. Our own maneuvers duplicated hers. At noon the fog began to show a hopeful intent to lift and we tried again, this time with better luck, relying upon power, figuring there wasn't the ghost of a

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Cut-away diagram shows how ammunition is "stored" inside the barrel.

6 Shots with 1 loading

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Sensational new item, from Knickerbocker! 29" long; realistic appearance; loaded at muzzle; individually boxed.

Safe! Can not harm children, or break glass.

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The only safety darts with rubber suction-cup tips. Black plastic pistol; easy-action trigger.

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Cellophane bag with 12 "Jet" ammunition balls.

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Stock No.	Mfr's No	lb Doz	Fact. List EACH
4H 3337	663	22	$3.00

One-half dozen in a carton.

Safety Dart Pistol and Target Set

Includes two all-shooter safety style dart pistols, four plastic shaft safety darts with rubber suction cup tips and a metal target. Bull's eye metal target is individual, full color plastic window gift box.

Stock No.	Mfr's No	lb Each	Fact. List EACH
4H 3326	608	5/8	$1.25

Twenty-four in a carton.

Jumbo Pig Bank

Stands a full 8 inches high, gaily hand painted features, with truly enormous capacity. Complete with key for lock in base.

Stock No.	Mfr's No.	lb Each	Fact. List EACH
4H 3325	208	1/2	$1.00

Twenty-four in a carton.

Tallulah The Talking Lamb

Head and tail move, Tallulah says "Baaaaa" as lamb is pulled. Hand painted features.

Stock No.	Mfr's No	Mt. In.	lb Doz.	Fact. List EACH
4H 3334	299	111	3.	$4.00

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Lovable
WALLOPING
WILLIE
inspired by the most popular game in America
ALWAYS A HIT!
RETAIL $1.00

Lone Ranger
the popular hero of young and old.
He gallops and rides...yippee!
RETAIL $1.00

NEW!
LINK-A-SPRING
you link-a-spring....and build a toy - Constructive fun for everyone!

Ting-A-Ling
MERRY-GO-ROUND
Delights the youngster
it RINGS - TURNS - ROLLS
IN ONE OPERATION!

KOHNER BROS.
Quality Action Toys that Sell!
155 WOOSTER STREET • NEW YORK 12, N.Y.

Be Sure to See the
KOHNER HIT LINE
at the SHOW!

HOTEL McALPIN
ROOM 754

Lovable
WALLOPING
WILLIE
inspired by the most popular game in America
ALWAYS A HIT!
RETAIL $1.00

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Quality Action Toys that Sell!
155 WOOSTER STREET • NEW YORK 12, N.Y.

KOROK

THE WORLD'S MOST DURABLE TABLE TOP

Chrome tables with tops of Korok—the most durable table surface ever made! Made of a rock-hard material fused into a sheet of steel.. Burn-proof—hot electric iron set on table with water sprinkled on it will evaporate the water and leave top unharmed. Hot pans, electric toasters, waffle irons, etc., will not harm top. Full pad of matches put upside down on top and burned down completely will not harm top—soot wipes off with cloth. Will not scratch or mar. Permanent lustre cannot fade, dim, or rub off with the most abrasive scouring powder. Guaranteed warp-proof and peel-proof. Korok's stainless steel trim does not tarnish or soil clothes—has lasting beauty. All edges moisture-sealed, completely sanitary—no crevices to lodge food and dirt. Choice of colors in tops: Gray, Red, or Yellow. F.O.B. Factory, Wis.

Ⓐ **Korok top table with Queen Anne style legs. Size: 30x48x30".** Complete with 1 leaf. Ship. wt 70 lbs.
30F472 ..... EACH **$55.20**

Size: 36x48x30". Complete with 1 leaf. Ship. wt. 85 lbs.
30F474 ..... EACH **$67.25**

Size: 36x48x72". Complete with 2 leaves. Ship. wt. 90 lbs.
30F474/2 ..... EACH **$76.05**

Ⓑ **Duncan Phyfe double pedestal. Size: 36x48x30".** Complete with 1 leaf. Ship. wt. 95 lbs.
30F475 ..... EACH **$72.75**

Size: 36x48x72. Complete with 2 leaves. Ship. wt. 90 lbs.
30F475/2. ..... EACH **$81.60**

Chrome Dinette Chairs of smartly modern design and excellent construction. Quadruple Textide-plated, wrap around frames. Covered in durable plastic, choice of colors: Gray, Red, Blue, Green, or Yellow. Matching plastic caps on legs. Packed 4 in carton. Approx. ship. ctn. wt. 60 lbs. F.O.B. Factory, Wisconsin.

Ⓓ **Built up foam rubber seat size: 16½x16½".** Nail trim. Two-tone covering with seat and outside back 1 color, inside back contrasting color. Specify seat color only.
30F916 ..... EACH **$12.45**

Ⓔ **Padded seat size: 15½x15½".** 12" curved and tapered back. Specify color (listed above).
30F911 ..... EACH **$7.70**

Ⓕ **Built up foam rubber seat size: 16½x16½".** Nail trim. Two-tone covering with seat and outside back one color, inside back in contrasting color. Specify seat color only.
30F914 ..... EACH **$12.50**

Ⓖ **Built up foam rubber seat size: 16½x16½".** Back 13" deep and 17½" wide. Diamond window back with nail trim. Specify color (listed above).
30F925. ..... EACH **$10.95**

CHROME, PLASTIC TOP TABLE

Ⓒ **Genuine Dearmoline, one-piece plastic top table.** Expertly finished in aluminum molding and apron. Quadruple Textide-plated frame. Packed 2 in carton. F.O.B. Factory, Wisconsin.
Size: 30x48x60". Complete with one 12" leaf. Ship. wt. 65 lbs.
30F61 ..... EACH **$35.50**

Size: 30x40x48". Complete with one 8" leaf. Shipping wt. 50 lbs.
30F51 ..... EACH **$28.35**

KUCHAR TRACTOR WAGONS, TRACTOR TRAILERS, TRACK WHEELS and REPLACEMENT TRACKS

Kuchar Track Wheel

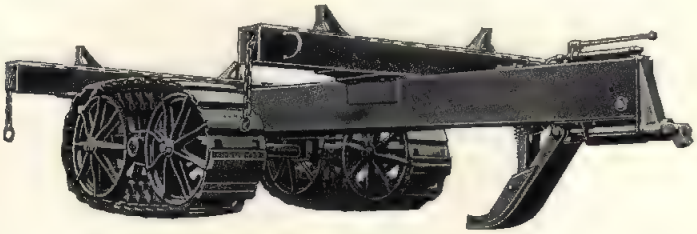
Smoother Running . . . Longer Life

4 to 30 Ton Capacity

Simple design, easily serviced in the field with ordinary tools. Replacing a shoe is easier than "changing an automobile tire."

Tracks may be rebuilt by replacing pins and bushings at very low cost. Replacement tracks for many other makes.

Kuchar Replacement Track



Log Trailer

"KUCHAR" tractor wagons and tractor trailers are built to solve various hauling problems. They work under practically all ground and weather conditions, serve mines, oil fields, sugar cane fields, earth moving projects, logging, engineers, heavy machinery movers, contractors and as dependable cross country transportation in isolated territories. Handle heavy loads over soft, miry, muddy, boggy, sticky, sandy, rocky and rough terrain conditions or where no roads exist.

KUCHAR SUGAR CANE WAGONS AND TRAILERS
For Hauling of Sugar Cane

KUCHAR UTILITY TRACTOR WAGONS AND TRAILERS
For Hauling of Logs, Oil Field Casings, Heavy Machinery, Etc.

KUCHAR COMBINATION UTILITY TRACTOR WAGONS AND TRAILERS
For Hauling of Long Logs, Long and Cumbersome Loads

KUCHAR STAKE BODY TRACTOR WAGONS AND TRAILERS
For Hauling Supplies and Other Commodities

KUCHAR TANK TRACTOR WAGONS AND TRAILERS
For Hauling Fuel Oil, Water or Other Liquids

WHEELED INDUSTRIAL AND AGRICULTURAL EQUIPMENT

247-1-49

JUSTRITE

Yellow-Flash 8

the MOST POWERFUL FLASHLIGHT MADE!

. . . and they're

CONVERTIBLE!

Yes, the JUSTRITE YELLOW FLASH 8 is not only the MOST POWERFUL FLASHLIGHT MADE, but they're also fully convertible! When used with No. 965 bulb (as supplied) for 8-cell operation, they're visible for 2,500 feet . . . *nearly half a mile!* Special *duo circuit* easily converted to long-life lantern battery operation if desired. Available in three styles, all in bright yellow baked-on enamel with highly polished reflectors.

CONVERTIBLE

Yellow-Flash 8

FLASHLIGHT

(Model 2108)

Only 3" square and 8" long. Folding handles, adjustable head. Only $3.95, less batteries

CONVERTIBLE

Yellow-Flash 8

HEADLIGHT

(Model 1958)

Leaves both hands free. Adjustable headband. Battery case clips to belt. Only $4.95 less batteries.

CONVERTIBLE

Yellow-Flash 8

LANTERN

(Model 2198)

Exclusive twin-bulb reflector insures constant light supply. Gives spot beam as well as all around lighting. With TWO #965 bulbs, only $4.45 less batteries

remember . . .

ALL YELLOW FLASH 8 lights are CONVERTIBLE to either 8-cell flashlight or lantern batteries. Stock up now . . . they sell themselves!

SEE YOUR JOBBER

JUSTRITE MFG. CO.

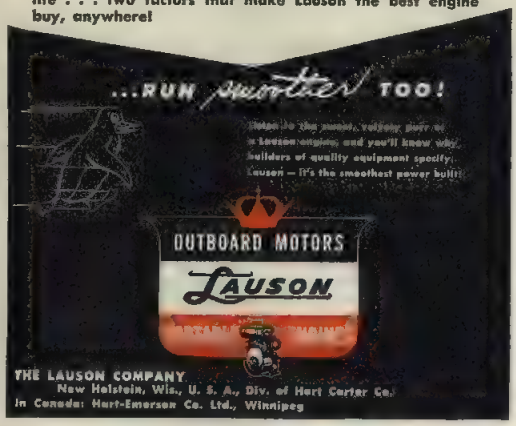
2061 No. Southport • Chicago 14, Ill.

LAUSON

ENGINES RUN *cooler!*

LAST *longer!*

Only Lauson has a stream of cool air directed over *both* valves at the same time! . . . greatly reducing engine heat! Another Lauson feature is the cylinder — with extra fins and special head for dissipating heat faster — resulting in cooler operation. These extra engineering refinements . . . and many more add up to true dependability and longer engine-life . . . two factors that make Lauson the best engine buy, anywhere!


. . . RUN smoother TOO!
Swing to the power, reliability, ease of a Lauson engine, and you'll know why builders of quality equipment specify Lauson — it's the smoothest power built!
OUTBOARD MOTORS
LAUSON

THE LAUSON COMPANY

New Holstein, Wis., U. S. A., Div. of Hart Carter Co.

In Canada: Hart-Emerson Co. Ltd., Winnipeg

there's nothing like

Sugar Puss

"The Smiling Kitten"

to sweeten your toy sales!

Ever see a fur kitten with a smile . . . a smile that wins hearts and *sales* in record time? That's SUGAR PUSS . . . produced through the exclusive new "Tru-Mold"* process by the makers of America's finest fur toys. As a precious plaything or a gorgeous gift, SUGAR PUSS is the "smilingest" kitten you ever saw!

You can trust LA MAR always to be first with the latest innovations in fine fur and novelty toys . . . always with that "personality plus" that means fast sales and generous profits for YOU!

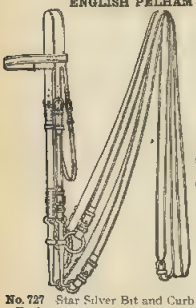
Individually Packed in Attractively-Decorated Acetate Box

See SUGAR PUSS and our complete 1951 line at The Toy Fair: Room 745, Hotel McAlpin

Write for our Deluxe 1951 Catalog — colorfully illustrated — showing our full line of popular items.

*U.S. Pat. Pend.

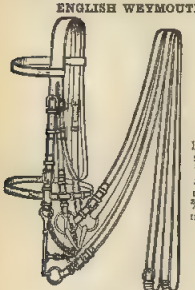
RIDING BRIDLES
ENGLISH PELHAM



Russet leather, flat solid crown, ¾ inch cheeks, ¾ and ⅞ in reins

No. 727 Star Silver Bit and Curb Chain Each $32.00

ENGLISH WEYMOUTH

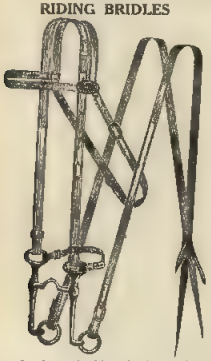


Russet leather, flat solid crown, ¾ in. double cheeks with nose band. ⅝ and ⅞ in reins

Star Silver Bit, Bradoon, and Curb Chain

No. 728 ..... Each $36.00

RIDING BRIDLES



Fair leather, double cheeks and crown Port bit.

No. 104½ ⅞ in Horse Size.....each, $9.00
No. 104½ ¾ in. Horse Size.....each, 8.40
No 104½P ¾ in Pony Size.....each, 7.80

HAND-TOOLED BRIDLE

Best quality russet skirting leather, flower hand-tooled design on cheeks, front and nose band; 2⅝ inch tapered cheeks; 1⅝-inch scalloped front and nose band; nickel buckles and conchas, ⅞-in. throat strap; 1-inch by 7-foot reins with looped ends; ½-inch curb strap

No. 891 .....Price each $18.00
No. 890 Same except basket stamped.. 16.00

HAND TOOLED MARTINGALE

Best grade, russet skirting leather, flower design hand tooled, 2¼" collar; ⅞" belly strap to loop around cincha; ⅞" tie-down to snap onto bridle, nickel plated hardware; oiled and shellacked. Weight 3 lbs. each.

No. 986 .....Price each $18.00
Same as 986 except basket stamped
No. 981 .....Price each $16.00

BREAST COLLARS

No. 985—Roping Breast Collar, Hand Carved, 2" Wide, Shaped down in Front so it will not cut off horses' wind, Sheepskin lined, 1" Billets, ⅝" Neck Strap, ⅞" Tie Down and Belly Strap. Complete with Bit Strap. Brass Buckles. Will match Bridle No 888.... $18.00
No. 980—Stamped Basketweave otherwise as No. 985... ..... $16.00

RIDING BRIDLE REINS

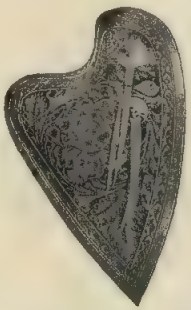
Fair leather.

No. 11 ¾ in . . . . . .Per pair $5.00
No. 12 ⅞ in . . .. Per pair 5.50

TAPADEROS

Leather covered, pointed ends, seamed in front center, hand stamped, laced on with latigo lace and brass rosettes; russet or black Oregon skirting leather.

No. 13.....Price per pair $22.00
No. 14—Hand-carved flower design outside. Basket stamped inside. $26.00



Russet or black 18" leather covered, point ends, seamed in front center, hand flower stamped, laced on with latigo lace leather and brass rosettes, Oregon skirting leather

No. 15..... ....Price per pair $38.00

Tie In WITH YOUNG AMERICA'S New Television Star

Now appearing every Sunday in your city . . .

FEATURE THESE LESLIE-HENRY EXCLUSIVES...

GENE AUTRY

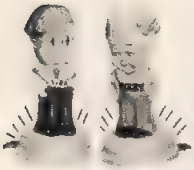
PISTOLS
Individually packaged

PISTOL and HOLSTER SETS

COWBOY OUTFITS

SEE THESE NEW ITEMS
NOW READY FOR DELIVERY

Leslie-Henry Co.
MOUNT VERNON, N. Y.
SHOWROOM: 1107 Broadway, New York 10, N. Y.
M. A. Henry Western Co., 1751 Olympic Blvd., Santa Monica, Calif.
M. A. Henry Limited, Scarborough Junction, Ontario, Canada



Doll Bank Nite Lites

Series of Toy Animal Flashlites

Series of Electric Rocker Toys

Series of UL Approved Animal Nite Lites

Series of Rotating Musical Banks

Here they are!

51 WINNERS for YOU in '51

WE'VE DONE IT AGAIN—this time with 51 cleverly different numbers. Our successful electric animal novelties and toys are back with a host of new friends—all of them heading for the greatest year yet!

EVERY NITE-LITE WE MAKE IS

U.L. APPROVED

for your protection. Don't take chances handle only the Nite-Lites that have to be well made to get the U.L. label.

Series of Doll Nite Lites on Ivory Bases

Series of UL Approved Musical Nite Lites

Series of Doll Nite Lites on Colorful Drums

Animal Nite Lite

Series of Animal Book Ends

Series of Animal Bank Nite Lites

WHEN IN LOS ANGELES, be sure to visit our beautiful new street floor showroom at 322 E. OLYMPIC BLVD. Phil Eisner, Seymour and Lee Amster wil be happy to see you.

Write TODAY for CATALOG

B. L. LEVINSON MFG. CO., INC.

creators of the famous Electric Animals and DOLL-LITES

175 FIFTH AVENUE, NEW YORK 10, N. Y. **SPring 7-8540**

Libbey Stemware

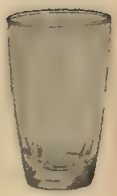
Coin Cut Pattern

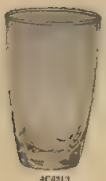
4C 6200

4C6202

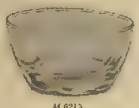
4C6204

4C6205


4C 6212


4C6213

4C6214


4C 6215

Libbey

The coin-shaped cutting is smart and distinctive. Matching stemware and tumblers, designed to be used together. Correct for both modern and traditional settings. Rims guaranteed against chipping.

Stock No.	Size Oz	Item	Pr Ctn	Fact List SET
4C 6200	9	Goblet	6	$8.40
4C 6202	6½	Sherbet	6	7.40
4C 6204	5	Parfait	5	7.40
4C 6205	4	Cocktail	6	7.40
4C 6206	1	Cordial	2	5.40

Stock No.	Size Oz	Item	Pr Ctn	Fact List SET
4C 6212	14	Cooler	10	$8.40
4C 6213	10	Beverage	9	7.40
4C 6214	9	Tumbler	9	7.40
4C 6215	8	Bow.	7	7.40

Four in a set. Three sets in a carton

Star Dust Pattern

4C 6300

4C6301

4C 6304

4C 6305

Libbey

Rich, simple, versatile. Practical for every day use. Glasses have ground-fire rims. Guaranteed against chipping.

Stock No.	Size Oz	Item	Pr Ctn	Fact List SET
4C 6300	9½	Goblet	11	$2.40
4C 6301	6	Champagne	9	2.40

Stock No.	Size Oz.	Item	Pr Ctn	Fact List SET
4C 6304	5½	Parfait	7	$2.40
4C 6305	4½	Cocktail	7	2.40

Four in a set of any one item. Three sets in a carton.

Libbey Hostess Sets

Rose Classic Pattern

8 Piece Set

Richly decorated in satin etch and 22K gold. Rose classic is practical for formal or informal settings. Gift boxed. Rims guaranteed against chipping.

Stock No.	Size Oz.	Item	Pcs. Ctn.	Price List SET
4C 6280	9	Goblet	15	$5.95
4C 6281	6½	Champagne	12	5.95
4C 6284	5	Parfait	9	5.95
4C 6285	4	Cocktail	9	5.95
4C 6297	10	Pilsner	19	5.95
4C 6286	1	Cordial	3	5.95
4C 6292	14	Cooler	38	5.95
4C 6293	10	Beverage	39	5.95
4C 6294	9	Toddler	33	5.95
4C 6295	8	Bowl	27	5.95

4C6280 to 4C6286—3 sets in a carton, 4C6292 to 4C6295—6 sets in a carton

4C 6294

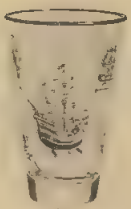
4C6295

4C7186

4C7193

4C 7187

4C 7191


4C7192

4C 7188

4C 7189

4C7194

Curio—Hobby Pattern

8 Piece Set

Designed of thinly blown glass. Decorated with authentic collector's curios in black, rich 14K gold and gleaming white Permanent colors. Fired on so they won't wash or wear off. Rims guaranteed against chipping. Handsomely gift boxed.

Stock No.	Mfr's No.	Size Oz.	Item	Decoration	Pcs. Ctn.	Price List SET
4C 7185	9382	4	Cocktail	Weathervane	14	$5.95
4C 7188	169	6	Sour	Old Glass	35	5.95
4C 7193	161	10	Hi Ball	Musical Inst.	44	5.95
4C 7187	9325	11	Pilsner	Carriages	24	5.95

Stock No.	Mfr's No.	Size Oz.	Item	Decoration	Pcs. Ctn.	Price List SET
4C 7191	163	16	Cooler	Locomotives	48	$5.95
4C 7192	162	14	Cooler	Ships	46	5.95
4C 7194	165	9	Old Fash	Old Metals	34	5.95

4C7185 and 4C7187, three sets in a carton; balance six sets in a carton

Curio—Hobby—4-Piece

Stock No.	Mfr's No.	Size Oz.	Item	Decoration	Pcs. Ctn.	Price List SET
4C 7189	166	2	Jigger	Stamps	12	$1.25

Twelve sets in a carton

Libbey Stemware

Crystal Garland Pattern

4C6220

4C 6221

4C6222

4C6223

4C 6224

4C 6225

4C 6226

4C 6228

4C6232

4C6233

4C6234

4C6235

Libbey

Exquisitely detailed cut glass. Match stemware and tumblers, superb with either modern or traditional settings. Rims guaranteed against chipping

Stock No.	Size	Item	Pc Ctn	Pact. List SET
4C 6220	9 -oz.	Goblet	9	$4 40
4C 6221	6½-oz	Champagne	8	3 40
4C 6222	6½-oz.	Sherbet	7	3 40
4C 6223	4 oz	Wine	6	3 40
4C 6224	7 -oz	Parfait	6	4 40
4C 6225	4 oz	Cocktail	5	3 40
4C 6226	1 oz.	Cordial	8	3 40

Stock No	Size Oz	Item	Pc Ctn	Pact. List SET
4C 6227		Oys. Cocktail	5	$3 40
4C 6228	12 -oz.	Ftd Ice Tea	9	2 40
4C 6232	14 oz	Cooler	10	2 40
4C 6233	10 -oz	Beverage	8	2 40
4C 6234	9 -oz.	Toddler	9	2 40
4C 6235	8 -oz	Bowl	7	2 40
4C 6229	8 -in	Plate	16	4 80

Four in a set. Three sets in a carton.

Libbey Stemware

Laurel Classic Pattern

4C 6260

4C6262

4C6264

4C 6265

4C6273

4C 6273

4C6274

4C6275

Libbey

This versatile cut glass is correct for both formal and informal use. Matching stemware and tumblers with brilliant cut decora tions. Each guaranteed against chipping

Stock No	Size	Item	lb Ctn	Fact List SET
4C 6260	9 -oz	Goblet	9	$4.50
4C 6262	6½ oz.	Sherbet	6	3.50
4C 6264	5 oz.	Parfait	5	3.50
4C 6265	4 -oz	Cocktail	6	3.50
4C 6266	1 -oz	Cordial	2	3.50
4C 6267		Ova Cocktail	5	3.50

Stock No	Size Oz.	Item	lb Ctn	Fact List SET
4C 6272	14 -oz.	Cooler	10	$2.40
4C 6273	10 -oz.	Beverage	9	2.40
4C 6274	9 -oz	Toddler	8	2.40
4C 6275	8 -oz.	Bowl	7	2.40
4C 6269	8 in.	Plate	16	1.80

Four in a set Three sets in a carton

Libbey Stemware

Crystal Leaf Pattern

4C6240

4C6241

4C6242

4C6243

4C6244

4C6245

4C6246

4C6248

4C6252

4C6253

4C6254

4C6255

Libbey

Crystal leaf pattern delicately cut on tall stemware and matching tumblers. Sparkling crystal glassware. Rims guaranteed against chipping

Stock No.	Size	Item	lb	Qtn	Fact List SET
4C 6240	9 -oz	Goblet	9		$3 40
4C 6241	6½-oz.	Champagne	8		3 40
4C 6242	6½-oz.	Sherbet	7		3 40
4C 6243	4 -oz.	Wine	6		3 40
4C 6244	7 -oz.	Parfait	6		3 40
4C 6245	4 -oz.	Cocktail	5		3 40
4C 6246	1 -oz.	Cordial	2		3 40
4C 6247		Oys. Cocktail	5		3 40

Stock No.	Size Oz	Item	lb	Qtn	Fact List SET
4C 6248	12 -oz.	Ftd. Ice Tea	6		$3 40
4C 6252	14 -oz.	Cooler	10		2 40
4C 6253	10 -oz.	Beverage	9		2 40
4C 6254	9 -oz.	Toddler	9		2 40
4C 6255	8 -oz.	Bowl	7		2 40
4C 6249	8 -in	Plate	16		4 80

Four in a set Three sets in a carton

Libbey Hostess Sets

4C7117

4C7120

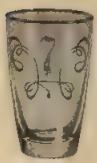
4C7121

4C7122

4C7123

4C7129

4C7125


4C7128

4C7127

4C7126

4C7118

4C7131

Libbey Hostess Sets

Prancing Colts—8-Piece

Combination frosted and gold decoration on heavy sham bottom tumblers. Rims guaranteed against chipping.

Stock No.	Size Oz.	Sets In Ctn.	lb Ctn.	Fact. List SET
4C 7117	11	6	42	$3.95

One set in a gift box.

Candy Stick—8-Piece

Frosted zombie with assorted color decorations. Rim guaranteed against chipping.

Stock No.	Size Oz.	Sets In Ctn	lb Ctn	Fact. List SET
4C 7120	14	6	38	$3.95

One set in a gift box.

Merry Go Round—8-Piece

Frosted zombie with different animal characters in assorted colors. Rims guaranteed against chipping.

Stock No.	Size Oz.	Sets In Ctn.	lb Ctn.	Fact. List SET
4C 7121	14	6	38	$3.95

One set in a gift box.

Tropical—8-Piece

Zombie with tropical scene. Rims guaranteed against chipping.

Stock No.	Size Oz.	Sets In Ctn	lb Ctn.	Fact. List SET
4C 7122	14	6	38	$3.95

Cavalcade—8-Piece

Frosted zombie, gold horse decoration, safedge. Rim will not chip.

Stock No.	Size Oz.	Sets In Ctn.	lb Ctn.	Fact. List SET
4C 7123	14	6	38	$3.95

Tropicana

4C 7129	16	6	33	3.95

One set in a gift box.

Daisy Wreath—8-Piece

Sham bottom beverage glass with safedge. Rims guaranteed against chipping. Gold lines with daisy decoration. Attractively boxed.

Stock No.	Size Oz.	Sets In Ctn.	lb Ctn.	Fact. List SET
4C 7125	11	6	42	$3.95

Number Tumblers—8-Piece

Highball glasses numbered 1 to 8 with safedge. Rims will not chip. Gold rim and scroll with frosted numbers.

Stock No.	Size Oz.	Sets In Ctn.	lb Ctn	Fact. List SET
4C 7128	10	6	40	$3.95

International—8-Piece

10-ounce glass decorated tulipier glasses. Rims guaranteed against chipping.

Stock No.	Size Oz.	lb Ctn.	Fact. List SET
4C 7119	10	19	$5.95

Three sets in a carton.

Grunt and Groan—8-Piece

Grunt and groan decorated highball and pilsner sets. An ideal decoration for wrestling or television enthusiasts. Rims guaranteed against chipping.

Stock No.	Item	Sets Size Oz.	In Ctn.	lb Ctn.	Fact. List SET
4C 7126	Hi Ball Set	11	6	42	$5.95
4C 7127	Pilsner Set	10	8	19	5.95

Tom Sawyer—8-Piece

Sham bottom glasses colorfully decorated with a typical Mark Twain river scene. Rims guaranteed against chipping.

Stock No.	Size Oz.	Sets In Ctn.	lb Ctn.	Fact. List SET
4C 7118	14	6	40	$3.95

Basket Weave—8 Piece—Libby

Beverage tumblers with deep grey cuttings, making a basket weave pattern.

Stock No	Size Oz.	Sets In Ctn	lb Ctn	Fact. List SET
4C 7131	10	6	55	$3.95

Libbey Hostess Sets

4C7425 or 4C7435

4C7426 or 4C7436

4C7427 or 4C7437

4C7428 or 4C7438

4C7429 or 4C7439

Plain Crystal Classic—8-Piece

Classic shape glasses in sparkling crystal.

Stock No.	Size Oz.	Item	Ser. In. Ctn.	Tb Ctn.	Fact. List SET
4C 7425	14	Cooler	6	36	$1.65
4C 7426	10	Hiball	6	30	1.65
4C 7427	6	Juice	6	20	1.65
4C 7428	9	Toddler	6	29	1.65
4C 7429	8	Bowl	6	24	1.65

Emerald Green Classic—8-Piece

Classic shape glasses in rich emerald green. Emerald is a gleaming gem tone usually found only in antique glassware

Stock No.	Size Oz.	Item	Ser. In. Ctn.	Tb Ctn.	Fact. List SET
4C 7435	14	Cooler	6	36	$1.65
4C 7436	10	Hiball	6	30	1.65
4C 7437	6	Juice	6	20	1.65
4C 7438	9	Toddler	6	29	1.65
4C 7439	8	Bowl	6	24	1.65

Plain Pilsner—12 Piece

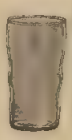
A very popular 10-oz. Pilsner glass.

Stock No.	Size Oz.	Ser. In Ctn.	Cat. List SET
4C 7455	10	6	$4.35

Bounce Tumbler Sets

4C7452

4C7451



4C7450

Libbey Heat Treated—12-Piece

Bounce tumblers are made with extra strength to outlast regular tumblers 3 to 5 times. Rims guaranteed against chipping.

Stock No.	Size Oz	Type	Tb Ctn	Fact. List SET
4C 7450	5	Juice	21	$1.65
4C 7451	9½	Beverage	28	1.75
4C 7452	12	Ice Tea	34	2.25

One set in a corrugated carton, 6 sets in a master carton.

Classic Ribbon Beverage Sets

Libbey—8-Piece

Attractive beverage tumbler in the new ribbon design, four color choices.

Stock No.	Mfr's No.	Size Oz.	Color	Ser. In Ctn	Tb Ctn	Fact. List SET
4C 7096	S7851	10	Green & Chartreuse	6	30	$1.75
4C 7097	S7851	10	Red & White	6	30	1.75
4C 7098	S7852	10	Red & Coral	6	30	1.75
4C 7099	S7353	10	Brown & Yel.	6	30	1.75

One set in a box.

Stemware

Treasure Island Pattern

4C 7153

4C7155

4C7156

4C7157

4C7158

4C7160

4C7162

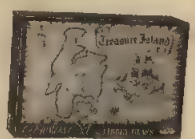
4C7163

4C7164

Libbey Hostess Set—8 Pieces

A different "Treasure Island" scene on each glass. Genuine 22K gold drinking edges, guaranteed against chipping. Colors are permanent. In handsome treasure gift box.

Stock No.	Size Oz.	Item	Ib Cln.	Pact	List	NET
4C 7153	5	Wine	14			$3.95
4C 7155	4	Cocktail	14			3.95
4C 7156	1	Cordial	5			3.95
4C 7157	10	Pilsner	24			3.95
4C 7158	6	Sauer	36			3.95
4C 7159	2	Jigger	12			1.85
4C 7162	14	Cooler	48			3.95
4C 7163	10	Hiball	44			3.95
4C 7164	9	Old Fashioned	34			3.95



Treasure Island Display Material

Stock No.		Cat. List EACH
4C 7168	Large Unit	$7.50
4C 7169	Small Unit	1.15

Libbey Hostess Sets

4C 7103 4C 7105 4C 7106 4C 7107 4C 7109 4C 7112 4C 7113 4C 7114

Horseless Carriage Pattern

8 Piece Set

These party spirited glasses are decorative, colorful. Authentic reproductions of old gas buggies. Permanent colors. Handsomely gift boxed. Runs guaranteed against chipping.

Stock No.	Size Oz.	Item	Sets In Ctn.	lb Ctn.	Fact. List SET
4C 7105	5	Wine	3	14	$5.95
4C 7105	4	Cocktail	3	14	5.95
4C 7106	1	Cordial	3	5	5.95
4C 7107	11	Pilsner	3	14	5.95
4C 7108	6	Sour	6	35	$3.95
4C 7112	14	Cooler	6	46	3.95
4C 7113	10	Hi Ball	6	44	3.95
4C 7114	9	Old Fsh.	6	34	3.95

Horseless Carriage—4-Piece

Stock No.	Size Oz.	Item	Sets In Ctn.	lb Ctn.	Fact. List SET
4C 7109	2	Jigger	12	12	$1.25

One set in a gift box.

4C 7175 4C 7176 4C 7177 4C 7178 4C 7179

Circus Pattern

8 Piece Set

The most colossal collection of colorful party glasses ever gathered together in one harmonious Hostess Set. A complete individual beverage set for terrace and table. Edges pearl-toned against chipping. Permanent colors. Gift boxed.

Stock No.	Mfr's No.	Item	Sets In Ctn	lb Ctn	Fact. List SET
4C 7175	16	King Size Cooler	6	33	$3.95
4C 7176	14	Ice Tea	6	33	3.95
4C 7177	10	Beverage	6	30	3.95
4C 7178	6	Juice	6	20	3.95
4C 7179	8	Bowl	6	24	3.95

Circus Small Counter Display

Display consists of one each 16 ounce, 10 ounce, 6 ounce tumbler in thick board display unit with advertisement from Life Magazine for back drop.

Stock No.	Inches Lgth	Wd.	Ht.	Cat. List EACH
4C 7180	13½	8½	19	$9.75

LIONEL TRAINS

EVERY LIONEL TRAIN EQUIPPED WITH

MAGNE-TRACTION

THE SENSATIONAL NEW
MODEL RAILROAD DEVELOPMENT

★

LIONEL CONSTRUCTION KITS

★ ★ ★

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CIRCUS PARADE

Pull Toys & PLASTIC BLOCKS

Boxed To Get The Eye Of "Passers-Buy"

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World's Largest Manufacturer of Plastic Blocks

Sell the "HEART" of the Family

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to Families with
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1018 S. Wabash Ave., Chicago

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When in New York, make AY-WON your first stop for
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Manufacturers of a Large Line of

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101 West 31st St., N. Y. C. P. O. Box 1017, Dallas, Texas

Baseball Bats

Louisville Slugger

Hard Ball

The No. 40 line of Louisville Slugger Bats is the highest development in the art of bat making. Only the best quality selected ash is used in turning these bats, the timber is seasoned in the open air for 12 to 24 months, and careful inspection at every operation insures that the finished product is the best that can be made. There is no wood that has the driving power of solid ash. In addition, all the bats in the No. 40 line are "powerized," that is, treated by a special patented process that reduces chipping and peeling to a minimum. Increases the driving power of the bat and prolongs its life. The finish, a very attractive tobacco brown, has been selected for this fine line of bats because it is the most durable that many years of research and experiment have developed.

Autographed models, exactly duplicating bats used by famous sluggers

Stock No.	Mfr's. No.		Approx. lb Doz.	Fact. List EACH
2J 383	40SM	Stan Musial	30	$3.45

All autographed models above, lengths 32 to 36 inches.
One dozen in a box.

Collegiate—Autographed

Select grade second growth ash, natural white finish. Patterned after the original models of the famous sluggers whose names they bear but turned to slightly smaller specifications for the particular use of high school and college batters.

Stock No.	Mfr's. No.		Approx. lb Doz.	Fact. List EA
2J 385	125	Assorted	25	$3.45

All autographed models 32 in. to 36 in. 12 in a carton.

Louisville Slugger Junior—Autographed

Natural white finish.

Stock No.	Mfr's. No.	Lgth. In.	lb Doz.	Fact. List EACH
2J 371	125K	29	15	$0.90

Twelve in a carton.

Safe hit, light brown finish.

Stock No.	Mfrs. No.	Lgth. In.	lb Doz.	Fact. List EACH
2J 363	14	32 to 36	28	$1.75

One dozen in a carton.

Major League

Stock No.	Mfrs. No.	Lgth. In.	Approx. lb Doz.	Cat. List EACH
2J 371	35	32 to 36	28	$2.60

Major League

Turned from thoroughly seasoned white ash and finished in ash white. Supplied with six famous named players in each carton of one dozen.

Stock No.	Mfr's. No.	Lgth. In.	lb Dozen	Fact. List EACH
2J 378	110	33-36	27	$2.65

One dozen in a carton.

Youngster—Cracker-Jack

Golden brown finished hardwood

Stock No.	Mfr's. No.	Lgth. In.	lb Doz.	Fact. List EACH
2J 375	62	29	16½	$0.50

Three dozen in a carton

Hard Ball

Large Junior—Midget League

Light brown finish.

Stock No.	Mfr's. No.	Lgth. In.	lb Dozen	Fact. List EACH
2J 376	J2	32-33	23	$1.30

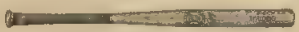
One dozen in a carton.

Large Junior—Collegian

Attractive brown antique finish. With the name of a famous hitter branded on barrel. Four names to each carton of one dozen.

Stock No.	Mfr's. No.	Lgth. In.	lb Dozen	Fact. List EACH
2J 377	J1	32-33	24	$1.75

One dozen in a carton.



Spalding—Autograph

Model signed by Averill, Cavaretta, Foxx, Hartnett, Kittner, McCormack, McCoskey, Rolfe, Tabor and Walker. Natural finish, black-branded. Resilite treated. Packed one dozen in a carton in assorted models and lengths.

Stock No.	Mfr's. No.	Lgth. In.	Approx. lb Doz.	Fact. List EACH
2J 392	120	33 to 36	28	$3.45

Spalding—Collegiate Autograph

Same autographs as above but slightly smaller and lighter for school and college players. Natural finish, black-branded resilite treated. Packed one dozen in a carton in assorted models and lengths

Stock No.	Mfr's. No.	Lgth. In.	Approx. lb Doz.	Fact. List EACH
2J 393	121	33 to 36	28	$3.45

Soft Ball or Indoor

Official—Indoor

Made of high grade ash. Golden mottled finish. Highly polished. Taped handle. 2-inch barrel

Stock No.	Mfr's. No.	Lgth. In.	Approx. lb Doz.	Fact. List EACH
2J 1270	54	32 to 34	12	$1.65

Two dozen in a box.

Indoor

Made of ash wood golden finish. 2-inch barrel

Stock No.	Mfr's No.	Lgth. In.	Approx lb Doz.	Fact. List EACH
2J 1269	52	33 to 34	20	$1.50

Two dozen in a box

Regulation

Ash, medium brown finish, with black tapered handle

Stock No.	Mfr's. No.	Lgth. In.	Approx. lb Doz.	Fact. List
2J 1272	50	33 & 34	20	$0.90

Two dozen in a box.

Baseball Bats

Softball

Official Softball

For the consistent hitter, a small barrelled bat, 2¾ inches in diameter, with straight taper to small grip. Antique finish. The finest selection of second growth ash or hickory. Powerized. White tape grip.

Stock No.	Mfrs. No.	Lgth. In.	lb Doz.	Fact. List EACH
2J 1273	125Y	33, 34	25	$8.70

One dozen in a carton

Official Softball

Official Louisville slugger softball bat. Brown finish. Assorted models. Ash or hickory, cork grip.

Stock No.	Mfrs. No.	Lgth. In.	lb Doz.	Fact. List EACH
2J 1274	125B	33, 34	25	$8.65

One dozen in a carton.

Official Softball

Official Louisville slugger softball bat. Natural white finish, assorted models. Ash or hickory, white tape grip.

Stock No.	Mfrs. No.	Lgth. In.	lb Doz.	Fact. List EACH
2J 1276	125W	33, 34	25	$8.65

One dozen in a carton

Official Louisville Slugger Softball Bat

Natural white finish. assorted models. Ash or hickory, white tape grip.

Stock No.	Mfrs. No.	Lgth. In.	lb Doz.	Fact. List EACH
2J 1277	100W	33, 34	25	$8.15

One dozen in a carton.

Louisville Slugger

For 13 Inch Ball

High grade ash bottle shaped, with 2¾ inch barrel.

Stock No.	Mfr's. No.	Lgth. In.	Approx. lb Doz.	Fact. List EACH
2J 1285	125C	32, 33	20	$2.65

Stock No.	Mfr's. No.	Lgth. In.	Approx. lb Doz.	Fact. List EACH
2J 1280	100C	32 33	20	$2.15
2J 1281	13-X	32, 33	20	2.15
2J 1282	13-B	32, 33	20	2.15

One dozen in a carton

Fielder's Gloves

Reach

Cecil Travis

Large size, creased cowhide. Set-in thumb. Regular fingers and back with wide wrist strap. Full lining with laced heel. Rolled leather binding. Laced thumb trap with two tunnel loops.

Stock No.	Mfr's. No.	Approx. lb Ea.	Fact. List EACH
2J 414	293	¾	$5.35

Full Right—For Left-Hand Players

Stock No.	Mfr's. No.	Fact. List EACH
2J 415	293FR	$5.35

One in a box.

Sure Play

Perfect for younger players. Full oiled set-in thumb. Welted thumb and fingers. Laced at wrist. One tunnel loop and lace at thumb crotch. Full lined.

Stock No.	Mfr's. No.	Approx. lb Ea.	Fact. List EACH
2J 418	297	¾	$8.60

One in a box.

Monte Pearson Hardball or Softball

Selected full oiled cowhide in large size. Full leather lined, rolled binding. Regular back with wide wrist strap. Welted fingers and thumb seams. Connecting tunnel trap.

Stock No.	Mfr's. No.	Approx. lb Ea.	Fact. List EACH
2J 419	250	1	$10.75

Full Right—For Left-hand Players Hardball or Softball

Stock No.	Mfr's. No.	Approx. lb Each	Fact. List EACH
2J 420	250-FR	1	$10.35

One in a box.

SLEDS

Fleetwing Racer—Streamlined

Selected hardwood. Natural varnish finish, with two tone red and black lettering. Black steel front. Knees and safety runners red

No.	Length In.	Width Front, In.	Width Rear, In.	Knees	Wt. Per Doz., Lbs.	Per Doz.
34	34	13½	12	4	93	$37.20
38	38	13½	12	4	99	45.00
42	42	13½	12	4	105	52.20
47	47	13½	12	4	115	61.80
		Fleetwing Racer—Streamlined				
51	51	14½	13	6	134	76.20
57	57	14½	13	6	168	81.72

Packed setup two per bundle

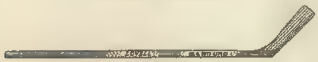
SLED GUARD

Made of selected hardwood, natural varnish finish. Metal corner hinges enameled bright red. Fits any standard size sled.

No.	Overall Lgth., In.	Height Back Rest, In.	Wt. Per Carton	Per Doz.
019	18	14	20	$28.42

Packed 6 per carton

HOCKEY STICKS



No. B

No. 00

No. 250

No. 250 is made from good quality hardwoods. Blade is pinned and lacquered. Lies 5 and 6. Lefts and rights only.

No. 250 ..... Per dozen $34.50

No. 00 is made from best grade of hardwoods. Has a tongue and groove lamination at the heel. Blade pinned and lacquered. Handle length 50 in. to 53 in. Lies 5 and 6. Lefts and rights.

No. 00 ..... Per dozen 25.90

No. B—Boys Expert. Made from oak. Nicely finished. Handle length 43 in. to 47 in.

No. B ..... Per dozen 16.60

SKI BINDINGS

Trailmaster

A serviceable binding for general use. Provides adequate adjustment for men's and women's boots of all sizes. Regular heel clamps. Toe straps. Heel plates

No. 112 ..... Per pair $3.80

LUND SKI POLES

Superior

Tonkin Cane Shaft, Duraloid covered. Leather wrist strap

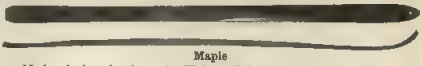
	Length, Inches		
No. 34	45	48	51
Per pair	$3.80	3.80	3.80

Juvenile

Colorful lacquered hickory shaft. Leather wrist strap. Length 39 inches

No 35 ..... Per pair $2.50

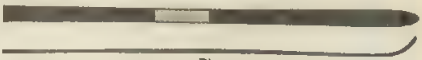
LUND SKIS



Maple

Made of clear hard maple. Walnut finish. Not mortised.

No. 017 Length, Feet	6	6½	7
Per pair	$16.40	16.40	16.40



Pine

Made of selected materials. Attractive brown walnut finish. Mortised (slotted for straps). Come with leather toe strap and buckles

No. 018—Length, Feet	4	5½	6
Per pair	$4.50	7.30	8.20

SKI WAX

An all purpose wax for varying snow conditions.

No. 24—Fivestar ..... Per dozen $5.30

One dozen in a carton

HOCKEY PUCKS

Official

Best quality. Correct official weight, dimensions and hardness

Official Puck ..... Per dozen $8.10

Practice

Black rubber, regulation size.

Practice Puck ..... Per dozen $4.50

LUND Winter Sports Needs

•SKIS• •SNOWSHOES• •ACCESSORIES•

Lund Presto Ski Poles

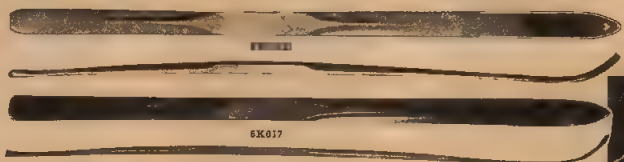
Well proportioned, extra strong shafts Light weight metal The telescoping shaft can be adjusted from 36" to a 55" length and locked in place with a simple half turn. Leather wrist strap

No. 6K35. Dealer's, pr , 10.00 net

No. 6K30. Royal-Fluted tapered steel shaft. Lengths 42", 45", 48", 51". Specify.
Dealer's, pair. 8.20 net·

No. 6K32. Paramount-Aluminum shaft. Lengths 45", 48", 51" Specify
Dealer's, pair, 5.20 net.

No. 6K35. Juvenile-Lacquered Tonkin shaft. Length 39"
Dealer's, pair, 2.00 net;



6X617

Not included in our Prepaid Freight Offer

LUND LAMINATED HICKORY RIDGE TOP SKIS

JUNIOR SKIS MAPLE RIDGE TOP WALNUT FINISH

Cat. No.	Description	Dealer's per pr
6K017J	5' Maple	5.20
6K017JA	5'6" Maple	6.40

PINE

6K018	4' Pine	2.80
6K018A	5' Pine	4.00
6K018B	5'6" Pine	4.40
6K018C	6' Pine	4.80

HICKORY JUMPING SKIS

Walnut finish, reinforced heel, natural bottom.

Cat No.	Size	Dealer's per pair
6K014S	7'6"	26.00
6K014SA	7'9"	28.00
6K014SB	8'	28.00
6K014J	6'6"	20.00
6K014JA	7'	20.00

Lund super quality. Multiple Laminated Walnut finish. Plastic top edges around tip and bend. Basewaxed hickory bottoms. Lengths 6' 5", 6' 9", 7', 7' 3". Tempered steel edges attached. Specify length.
No. 6K02D. Dealer's, pair, 32.00 net;

No. 6K026D. Alf Engen autographed, 4-piece Laminated grey finish, plastic top edges around tip and bend. Reinforced heel. Lengths 6' 3", 6' 6", 6' 9", 7', 7' 3".
Specify length
Dealer's, pair, 28.00 net;

No. 6K012. Traveler, walnut finish. Dark bottoms **SPECIFY LENGTH.**
Dealer's, pr , 20.00 net.

No **6K017** Maple Skis ridge top, hard maple, walnut finish Lengths 6', 6'3" 6' 6", 6' 9",7'. Specify length.
Dealer's. pr., 10.00 net;

No. 10

Lund Micromatic Ski Bindings

The assembly permits extra fine adjustments after the binding is fully mounted Sole clips and toe straps. New ladder-type forward front throw
No. 6K10MB. Dealer's, pair, 8.40 net·

No. 6K17AB. Super-K, strong practical and simple toe iron assembly that provides adequate adjustment
Dealer's, pair, 5.80 net.

No 6K16. Youth's cable binding Complete with cable and heel spring, forward front throw, low hitches & heel plate.
Dealer's, pr., 4.00 net,

WAX KIT

6X27

LUND ICE HOCKEY STICKS

LUND ICE HOCKEY STICKS

Made of the finest quality hard wood They are all built to give fine long lasting service Colorful tape used on blades and shafts adds to their attractiveness The collegiate model is a full length stick Assorted hes 53" shaft Retail 2 50
No. 6K55 Dealer's net 2.00
No 6K57 Challenger a correctly proportioned stick, made for the younger boy Neutral only, 46" to 48" shaft
Dealer's, each net 1.11
No. 6K58. Youths. A fine stick for the youngsters. 38" to 40" shaft.
Dealer's, each net .80

No. 61

LUND SNOW SHOES

These are large size shoes for heavy duty and sports wear and are popular with hunters, trappers, forest rangers and lumbermen Come in 3 sizes 14"x48" 13"x 48", 12"x 48" Specify
No. 6K61. Dealer's, pair,17.60 net.

No. 6K64. Snow shoe Sandal Made of heavy leather that will not harden from exposure to moisture Laces and straps are of leather of select quality that will not stretch
Dealer's, pair 9.40 net:

LUND SKI WAX

No.		Dealer's each net
6K210	One Star—For newly fallen, dry and powder snow	.25
6K21	Two Star—For clogging, sticky snow	.35
6K22	Three Star—Liquid Klister for wet, sticky snow	.40
6K23	Four Star, Hi-speed Wax	.35
6K24	Five Star—Universal, for varying snow conditions	.25
6K27	Ski Wax Pack Four waxes cork and scraper in case	1.60
6K25	Lund Ski Lac—Liquid lacquer type base or speed wax (6 oz.)	.80
6K214	Graphite Lac—Liquid lacquer type base or speed wax containing Graphite (6 oz.)	.80
6K219	Clear Lacquer, for touch-up and repairs (6 oz)	.80
6K215	Lacquer Remover—Liquid (6 oz.)	.40
6K216	Ski Scrapers	.08
6K211	Waxing Corks	.20

No. 450
SPINNING TOP

4" in diameter. Packed 6 to box. One gross to a carton. Approximately 37 pounds per shipping container.

LUPOR MECHANICAL TOYS

SPINNING TOPS

are already giving evidence of an early demand and we are now accepting orders for our entire 1951 Spring line.

Write for new prices and catalog

No. 100—AMBULANCE—FRICTION SIREN DRIVE

Gaily lithographed in 3 colors. 7" long 2¾" wide. Packed 1 to a box—6 doz. to a carton. Approximately 30 lbs. per shipping carton.

No. 74—STOCK CAR—FRICTION DRIVE

Gaily lithographed in 4 colors. 7" long 2¾" wide. Packed 1 to a box—6 doz. to a carton. Approximately 29 lbs. per shipping carton.

No. 62—TAXI—SPRING WIND

Gaily lithographed in 3 colors 7" long 2¾" wide. Packed 1 to a box—6 doz. to a carton. Approximately 28 lbs. per shipping carton.

LUPOR METAL PRODUCTS, Inc.

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MASKS of every description

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FINDLAY, OHIO

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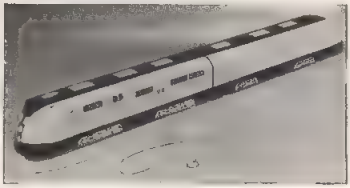
WOLVERINE TOYS?

. . . If not, we suggest that you do so, immediately!



NO. 164 . . . DIESEL PULL TRAIN

● WRITE FOR NEW FULL-COLOR CATALOG

WOLVERINE SUPPLY & MFG. CO.

FACTORY: PITTSBURGH, PA.

New York Sales Office: 200 Fifth Avenue. ORegon 5-3080

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4" in diameter. Packed 6 to box. One gross to a carton. Approximately 37 pounds per shipping container.

SPINNING TOPS

are already giving evidence of an early demand and we are now accepting orders for our entire 1951 Spring line

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Gaily lithographed in 3 colors. 7" long, 2¾" wide. Packed 1 to a box—6 doz. to a carton. Approximately 28 lbs. per shipping carton.

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242 EAST 137th STREET — NEW YORK 51, N. Y.

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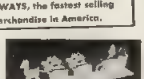
CHRISTMAS ORNAMENTS
Unbreakable
PLASTIC

See our big, new colorful line at the
TOY FAIR at the McAlpin.
In 1951, as ALWAYS, the fastest selling
Christmas merchandise in America.

No. 204
Large Plated Ball
With Facets



No. 805 R
Attractive Sled Set—
Santa Tree, Sled &
Reindeer Set by Rudolph
on 12 x 7½ Plastic Base

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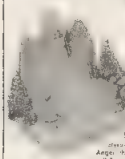
Electric Unbreakable
TREE TOP ANGEL
with Metered Push Pointed
Bells or Illuminated by
Concealed Light. With S.P.
Underwriters Approved
Cord and Socket Plug



No. 9000
Winter Scene—
Styro-Foam Alter Scene
Glass Front, Opens to Window, Alter
Angel, Tree Choir Boys, Reindeer and
Mail Trees — on Main Base 7 x 9 x 5½

See us first for a complete line of profit making unbreakable Plastic Ornament Sets
Jack-in-the-Boxes, Boxed Assortments
and many others. Write for samples

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"RUDOLPH" — the
Famous Red-Nosed
Reindeer

BRADFORD NOVELTY CO.
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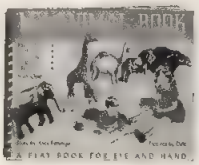

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THE ATLANTIC PLASTICS CO., Cleveland 3, Ohio

"LUPOR"

No. 74—STOCK CAR—FRICTION DRIVE
Gaily lithographed in 4 colors. 7" long, 2¾" wide. Packed 1 to a box—6 doz. to a carton. Approximately 29 lbs per shipping carton

MECHANICAL TOYS

Feature these popular fast-selling numbers. And be sure to inquire about our many other items.

Write for new prices and catalog

No. 62—TAXI—SPRING WIND
Gaily lithographed in 3 colors. 7" long, 2¾" wide. Packed 1 to a box—6 doz. to a carton. Approximately 28 lbs. per shipping carton.

No. 100—AMBULANCE—Friction Siren Drive
Gaily lithographed in 3 colors. 7" long, 2¾" wide. Packed 1 to a box 6 doz. to a carton Approximately 30 lbs. per shipping carton

TOY FAIR DISPLAY
HOTEL McALPIN
Room 970

In Attendance:
JOSEPH PORTOLANO, *President*
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No. 707 MIDGET RACER
A brilliantly colored car with FRICTION DRIVE . Sturdy Steel Construction . . . SAFE . . . No sharp edges Length: 6⅝"; Width 3¼". Packed 6 to box—12 doz. to carton Approximately 46 lbs per carton

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LUPOR METAL PRODUCTS, Inc.
242 EAST 137th STREET **NEW YORK 51, N. Y.**

Telescopic Sights

Honeywell Scope Cap Kits

Lightweight, tabreskkah scope cap kit. "Snap on and out," visable replaceable lens. Kit contains 4 lenses, 2 clear, 1 yellow 1 green.

Stock No.	For Scope No.	Fact. List EACH
2K 9785	KV	$3 00
2K 9786	K2 5	3 00
2K 9787	K4	3 00
2K 9788	K6	3 00
2K 9789	Alaskan	3 00
2K 9790	Challenger	3 00

Honeywell Lucite Lens Scope Caps

Stock No.	Mfr's No	For Scope No.	Fact. List EACH
2K 9791	195	K2 5	$1 95
2K 9792	195	K4	1 95
2K 9793	195	K6	1 95
2K 9794	195	KV	1 95
2K 9795	195	Alaskan	1 95
2K 9796	195	Challenger	1 95

Lyman Alaskan Scopes

2½ Power—.806 inch Tube (22M.M.)

Lyman scope sights have instant appeal to the sportsman. Embodies all the features which makes it optically and mechanically a most effective and practical sight for hunting rifles. The Alaskan scope permits mounting close to receiver, giving attractive streamlined appearance. Magnification 2½X. Field of view 100 yards. Approximately 40 feet; Diameter of exit pupil, approximately 9mm. Light transmitting ability increased by hard coated lens. Eye distance or relief approximately 5 inches. Length of scope 10⅛ inches. Eyepiece tube diameter, 1⅛ inches. Weight 11 ounces.

Stock No.	Mfr's. No.		Fact. List EACH
2K 9560	2½X	No. 7 Crosshair Reticule	$69.50
2K 9561	2½X	No. 5 Tapered Post & Cross Hair Ret	69.50
2K 9562	2½X	Lee Dot Reticule	82.00

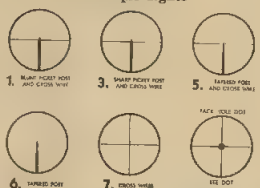
Lyman Challenger Scope

4 Power—1.024 inch Tube (26M.M.)

For the sportsman interested in large and small game hunting the Challenger 4-power offers a combination of an optical sensation and mechanical power superiority. The Challenger surpasses accepted standards of optical performance in the telescopic sight field. Magnification, 4X, field of view, 100 yards, approximately 30 feet; eye istance or relief approximately 3 to 5 inches, tube diameter 26mm. Weight 13 ounces.

Stock No.	Mfr's. No.		Fact. List EACH
2K 9565	4X	No. 7 Cross Hair Reticule	$89.50
2K 9566	4X	No. 5 Tapered Post & Cross Hair Ret	89.50
2K 9567	4X	Lee Dot Reticule	102.00

Windage and Elevation Values for Lyman Telescopic Sights


1. HAIR POST AND CROSS WIRE
3. SHARP POINT AND CROSS WIRE
5. TAPERED POST AND CROSS WIRE
6. TAPERED POST
7. CROSS WIRE
FLAT SIDE DOT
DOT

Split Ring Mounts are Required for Lyman Challenger

Range	7.3 (7⅜) Inches Between Mounts Each Point Inches	6 Inches Between Mounts Inches
50 Feet	2603	.3124
25 Yards	.3905	.4686
50 Yards	.781	.9372
100 Yards	1.562	1 8744
200 Yards	3.124	3 7488
300 Yards	4.686	5.6232
400 Yards	6.248	7.4976
500 Yards	7.810	9.3720
600 Yards	9 372	11.2464
700 Yards	10.934	13.1208
800 Yards	12.496	14.9952
900 Yards	14.058	16.8696
1000 Yards	15.620	18.744

Lyman Alaskan Scope

With Fixed Reticule

2½ Power—Use With Adjustable Mounts

This hunting scope has all the features of the well-known Lyman Alaskan, except windage and elevation adjustments. The adjustments are provided in the mount used with the fixed Alaskan. Otherwise specifications are the same

Stock No.	Mfr's. No.		Fact. List EACH
2K 9528	2½	No. 7 Crosshair Reticule	$49 50
2K 9529	2½	No. 5 Tapered Post & Cross Hair Reticule	49 50
2K 9530	2½	Lee Dot Reticule	59.50

Telescopic Sights

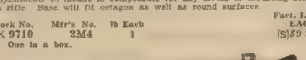
Mossberg No. 2M4—Telescope

With Micrometer Click 4-Power—Internal Adjustments—Coated Lens

Wide field of view approximately 20 feet at 100 yards. Fine click adjustments for both windage and elevation, give one half minimum hairs. Five eye relief system gives good illumination and clear definition without distortion or objectives, color fringe. Cross hair reticule moves in flat plane horizontally and vertically. This rigid mount brings scope down until it touches receiver. Remove two screws to dismount. Adjustments in mount to compensate for any errors in mounting scope on rifle. Base will fit octagon as well as round surfaces.

Stock No.	Mfr's No.	lb Each	Fact. List EACH
2K 9710	2M4	1	[S]$89 95

One in a box.



For models 151M and 152 Mossberg rifle only			
2K 9706	4M4	1	[S] 9 95

One in a box.

Rifles On Which 4M4 Mossberg Scope Sights Can Be Mounted

Mossberg models marked * will take No. 2M4. Those marked ** will take No. 1M4.

Mossberg—26B, 26C, 35, 35A, 35B, 42A, 42B, 42C, 42M, 43, 43B, 44B, 44UB, 45A, 45B, 48A, 48B, 48AT, 48BT, 48M, 50, 51, 51M, 51M(b), *

142, 142M, 144, 144B, 151K, 151M, 152, 152K. **

All 10-wing models will take No. 2M4.

Western Field—41, 45, 46, 46A, 46B, 46C, 47, 47A, 47B, 48, 49C, 49DA, 49SA, 49TA, 49BA, 49NB, 49TB

Marlin—A1, A1DL, A1E, 50, 50E, 50C, 50DL, 81C, 81DL, 27, 38, 39, 39A, 92, 97, 98 (25-20) 88C

Remington—12, 12B, 12C, 12CB, 24, 24A, 24C, 25A, 123 Hornet, 121, 241, 510, 510A, 510P, 511, 511A, 511P, 512, 512A, 512P, 513S, 513T, 514, 521T, 550, 33, 33A, 34, 34A, 34A Y, 4, 6, 41, 41A, 41T, 41P, 8A, 14A.

Savage—6, 6A, 65, 7, 7S, 19, 19M, 19L, 19M, 23A, 23AA, 23B, 23C, 23D, 14, 29, 29A, 29E, 40, 40C, 21B, 21, 26, 21D

Stevens & Springfield—11, 14½, 26, 27, 12, 17, 20, 22, 44, 71, 75, 76, 97S, 85, 322, 87, 87A, 087, 84C, 15, 51, 52, 56C, 66C, 404, 4.6, 417, 417A, 418, 418A, 418S, 2 (NR), 403D, 85, 85C, 419

Noble—33

Winchester—03, 53 (25-20) 54 H rum .45 57 61 62 6. 2 .0 69, 69A, 72, 74, 74A, 75, 43 (Hornet) 95 (25-20 98 62 62A 69 69A 67 85, 90

Iver Johnson—X 2K

Harrington & Richardson—165, 250, 350, 150, 151, 75A 80, 265 (base must be altered)

All the Mossberg and Western Field rifles listed here are either drilled and tapped or grooved for telescopes. All of the other makes listed must be drilled and tapped before our telescopes can be mounted. The drill size is No. 20 and tap size No. 10-32.

Mossberg—Spotting Scope

"Spotshot"

Model A

Scope—A high grade optical instrument, 20 power, designed primarily for spotting targets on the firing line, but equally effective for camp, marine and general observation. Materials of the best quality for light weight and adequate strength, erecting objective, coated lens 38 achromatic 45mm in diameter, ground to one hundred thousandth of an inch equivalent to one-half the length of a light wave, eyepiece lens is 10 mm., micrometer adjustment for focus, protective metal cans for both ends, black crinkle finish and chrome plated tube, length extended, 12 inches, closed 12½ inches, weight 1½ lb, field approximately 7¼ feet at 100 yards. American materials, American made.

Has unqualified endorsement of every target shooter who has tested it, and represents an outstanding value.

Stand—Unique in design and decidedly practical; sturdily built of strong aluminum alloy and steel, finished in black crinkle and cadmium plate, screw adjustments for horizontal and vertical adjustments, can be used for all makes of spotting scopes; folds to 10"x3¼"x3" and weighs only 3¼ lb., stays firmly in position and yet allows adjustments to be made with one hand—adjusts from 9¾" to 14¾, enthusiastic reception by riflemen already assured; American materials, American made; another unusual Mossberg creation and value.

Mfr's. Stock No.	No.	lb Each	Fact. List EACH
2K 9714	A20 Spotting Scope only	1½	[S]$27 50
2K 9715	A20-ST Stand only	2¼	13 25

Mounts—For Scope Sights

Redfield Junior Bridge-Type Mounts

Illustration Shows Mount with Alaskan Scope

The Redfield Junior mount provides a very economical, yet highly satisfactory means of attaching light and medium weight scopes to most rifles. The Junior mount is especially recommended for such scopes as Weaver K2.5, K4, K6, KV, etc., Lyman Alaskan and similar scopes with internal elevation adjustment.

Although as light in weight as is consistent with strength (approximately four ounces) is extremely rugged. The rotary dovetail and opposing screw windage adjustment systems are contained in the one-piece base.

NOTE—One base and one pair of rings make one complete mount.

Bases Only—Junior Scope Mount

Stock No.	Mfr's No.	For	Fact. List EACH
2K 9437	Jr. 70	70 Winchester Magnum	$6.75
2K 9438	Jr 70A	70 Winchester All Calibers	6.75
2K 9440	Jr. 14	14 & 141 Remington	6.75
2K 9441	Jr. 30	30 Remington Exp. or Remodeled Enfield	6.75
2K 9442	Jr. 721	721 Remington	6.75
2K 9443	Jr 722	722 Remington	6.75
2K 9444	Jr 760	M-760 Remington	6.75
2K 9445	Jr. 99	99 Savage	6.75
2K 9446	Jr. 39	336A Marlin	6.75
2K 9447	Jr. "S"	Springfield 1906	6.75
2K 9449	Jr. "M"	Mauser	6.75

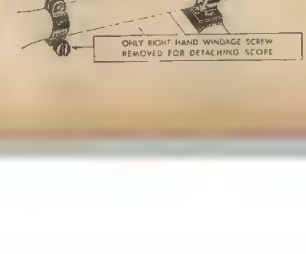
Sight Ring For Junior Mounts

Stock No.	Size In.	For	Fact. List PAIR
2K 9485	¾	Weaver K2.5, K4, K6	$5 75
2K 9489	22m/m	Alaskan	7.75
2K 9486	1	Weaver K2.5, K4, K6, KV	9.75

Split Ring For Junior Mounts

For Swelled End Scopes

Stock No.	Size In.	For	Fact. List PAIR
2K 9490	26m/m	Lyman Challenger	$12 75
2K 9487	1	Weaver K2.5, K4, K6 KV	12 75


LEFT HAND WINDAGE SCREW REMAINS FIXED SO SCOPE RETURNS TO ZERO
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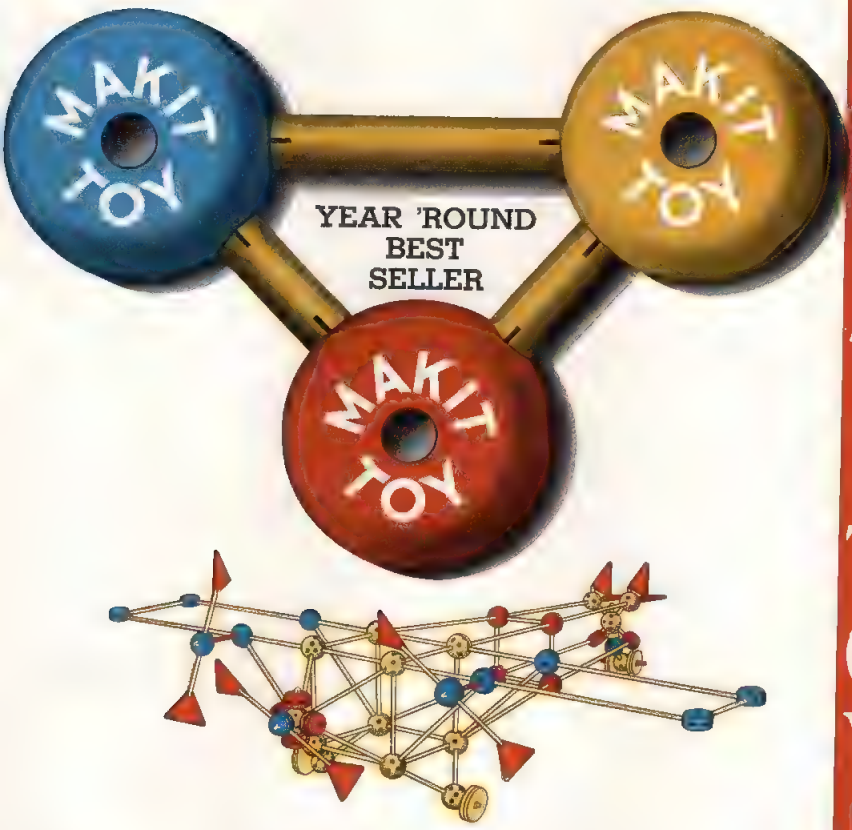
SUPER 183 PIECES

JUMBO 292 PIECES



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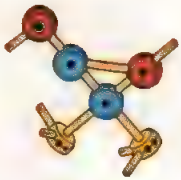
A QUALITY TOY

HIGH IN PLAY VALUE
PROVEN POPULARITY

A STAPLE TOY



PRIMARY MAKIT — 93 PIECES

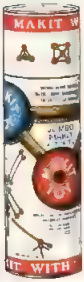
Builds Airplanes, Wagons, Toy Animals, Windmills and hundreds of other simple constructions. Complete in itself, yet a come-on for a Super or Jumbo Makit.

WEIGHT 12½ LBS DOZEN. ONE OR TWO DOZEN TO CARTON.

SUPER MAKIT — 183 PIECES

Has longer rods and more parts than Primary Makit. Larger, more complex constructions are possible. A popular size toy popularly priced.

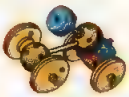
WEIGHT 22 LBS. DOZEN. ONE DOZEN TO CARTON.



JUMBO MAKIT — 292 PIECES

Most versatile construction toy on the market. Makes complicated mechanisms and elaborate architectural structures. Truly a Jumbo in size and diversity.

WEIGHT 38 LBS. DOZEN. HALF DOZEN TO CARTON.



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Makers of MAKIT TOY

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TAC does what no other tool can do!

AT LAST! AN OPEN-END RATCHET WRENCH — the world's first true *universal* wrench. A patented design for connections on tubing, rods, piping, conduit, studs, etc. Sixty-four socket sizes from ¾" to 4". Smallest effective ratcheting arc yet — 5° to 7½°. TAC will also do every job any ordinary ratchet wrench will do: one TAC set replaces literally dozens of single-purpose hand tools.

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TAC

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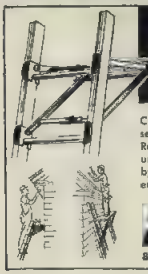
TUSING APPLIANCE CO.
7112 South Victoria • 10321 Anza Ave. • Los Angeles, Calif.



SPEEDY—STURDY
The ONLY *COMBINATION* SCAFFOLD BRACKET OFFSET LADDER BRACKET

Cut time on job. Unexcelled as either offset ladder bracket or scaffold bracket. Rail supported, safety grip. One compact unit for any standard ladder. Widely used by contractors and homeowners. Top dealerships open. Write for specifications.

STEADFAST EQUIPMENT CO.
874 Franklin Ave., Thornwood, N. Y.

CLEMENT TOY COMPANY
NORTH WEARE, N. H.

Wood Turnings—All Types

Tool Handles • Round Brush Handles • Furniture Knobs

Plain — or Finished in
Enamel — Varnish — Stain — Shellac

Special Turnings to Order For All Purposes

COMPETITIVE TOOLS INCREASE SALES

THE MARION LINE

Low Prices With High Price Features—Steady Sellers

AXES

For Scouts—Campers—General Utility

HATCHETS

Various Patterns & Sizes

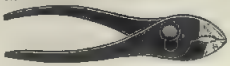
NAIL HAMMERS

Standard Weights & Finishes

MAGNETIC TACK HAMMERS

Various Sizes & Styles

COMBINATION SLIP-JOINT PLIERS



CAST TINNER'S SNIPS
Special Alloy

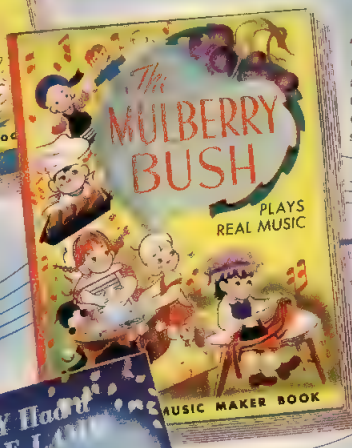
MARION TOOL CORP.
MARION, IND.

Presenting MATTEL Music Maker BOOKS

BOOKS THAT *play* REAL MUSIC

BOOKS and MUSIC—each Centuries-old in popularity—now combined by Mattel to make something entirely new in the world of things-for-children. MORE than just a story, MORE than just music, MORE than just a musical score—each book contains a Mattel patented music box, enabling the child to play, dance, sing, read the text, and begin to learn to read real music.

No. 470 - "Farmer in the Dell"
12 pages of rich, brilliantly colored action pictures.



No. 471
"The Mulberry Bush"
Children can sing, and *act out* "This is the way we wash our clothes . . . go to school," etc.

"TURN THE CRANK AND SING EACH PAGE!"

No. 472
"Mary Had a Little Lamb"
Classic childhood favorite . . . with text and full playable score on Mattel Music Box.

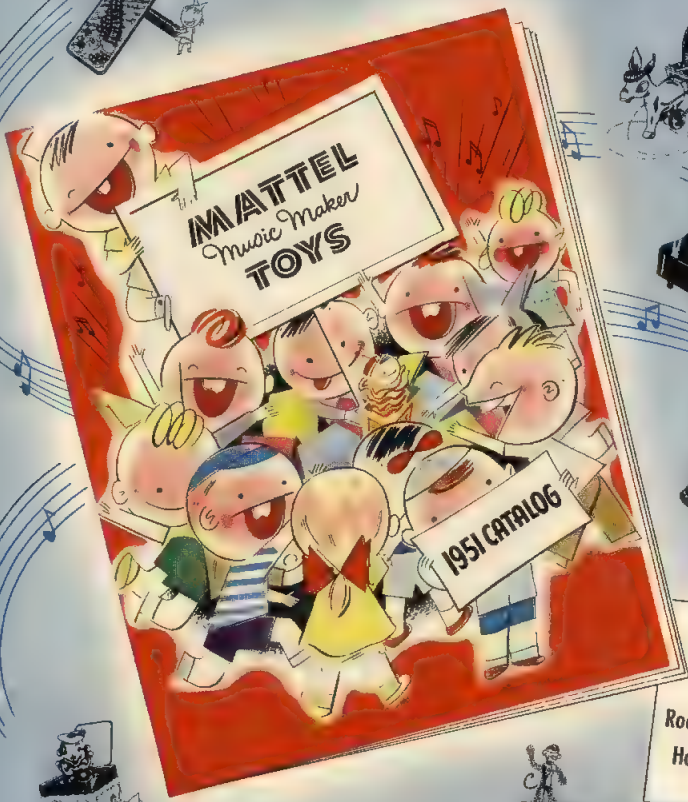
Each book is pictured in an entirely new form of art work. These refreshing, *different* illustrations are just as original, as revolutionary as the form of the book itself—not just new illustrations for a long-loved story—but a whole new manner of picture-text that brings the little classic to life, all over again.

Representatives:
Jalof & Lewis . . . 1110 Wilshire Blvd., Los Angeles 14, Calif
Toy Market . . . . 1424 Merchandise Mart, Chicago 54, Illinois
A. J. Frank . . . . 200 Fifth Avenue, New York 10, New York
Russell O. Jesse Co... 149 The 6y Way., N. E., Atlanta 5, Georgia

Mattel, Incorporated • 8436 Warner Drive • Culver City, California

THEY'RE EXCITING! THEY'RE TERRIFIC! THEY'RE...

MATTEL Music Maker SENSATIONS FOR 1951!

backed by the most phenomenal success of recent years in the field of popular priced toys

See them all at Rooms 610-14-17 Hotel McAlpin

Music Makers of the Toy Industry

Mattel Incorporated • 8436 Warner Drive • Culver City, California

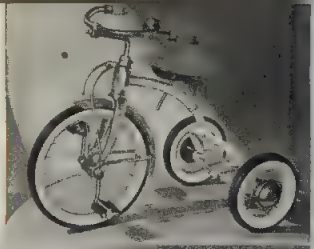
COPYRIGHT 1951, MATTEL, INC.

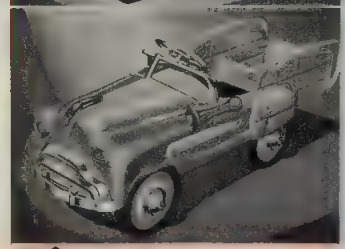
Symbol of Quality

MERCURY Wheel Goods
MURRAY-GO-ROUND Baby Walker
MERCURY Bicycles
MUSSELMAN Coaster Brakes

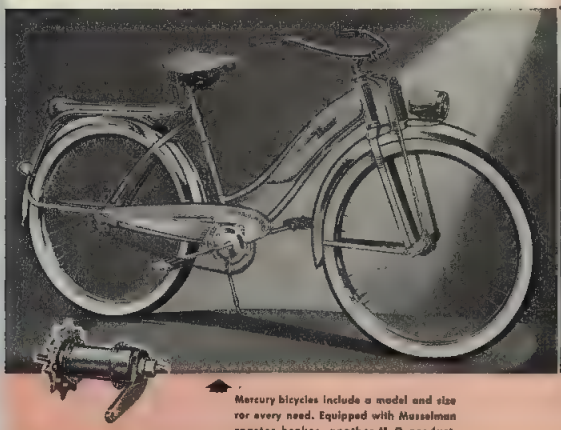
Our goal during 1951 is to produce as much as possible and to distribute it fairly within the limitations of material shortages beyond our control . . . At the same time, the famous reputation for quality of Murray Ohio products will be zealously maintained.

THE MURRAY OHIO MFG. CO., CLEVELAND 10, OHIO



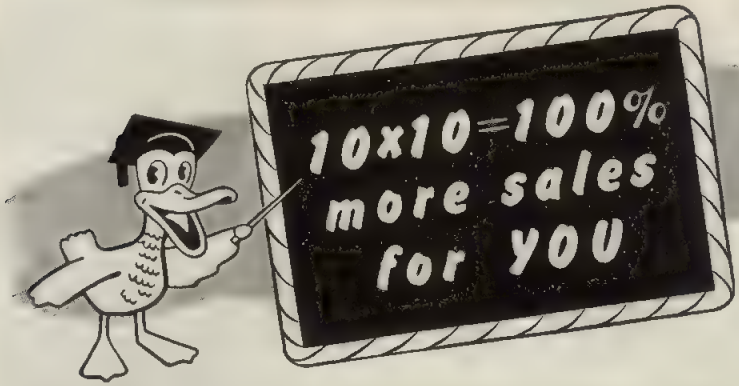


Mercury wheel goods include autos, trucks, wagons, velocipedes, chain-driven tricycles, and park cycles.



Mercury bicycles include a model and size for every need. Equipped with Musselman coaster brakes, another M-O product.

Murray-Go-Round is the sensation of the baby walker field because of many unique features.



WITH OLT GAME BIRD CALLERS—

1. Each call hard rubber throughout.
2. No call ever affected by climatic conditions.
3. Always dependable—never a dealer complaint on holdover stock or non-acceptance by hunters throughout the world.
4. Full-volumed—they're made to sell.
5. True-to-Nature in Tone—naturally they sell.
6. Easy to operate—hunters have been operating Olt's calls for over 45 years.
7. Quality Guaranteed—sold wherever quality is demanded.
8. Demanded by Hunters Everywhere—No store handling hunter's needs can afford to be without the Olt line.
9. Nationally Advertised—all leading Sporting Publications carry Olt advertisements and articles.
10. Prompt Service—Delivery always fast and efficient.

OLT

PHILIP S. OLT, Dept. HA Jy51, PEKIN, ILL.

Mention Hardware Age When Writing

FOR PICTURES THAT Click . . . . CLICK A **UNIVERSAL !**

THE BUCCANEER

Universal's 35MM.—The All-Feature Camera. This Double-Frame Buccaneer has Tessar Coated F:3.5 Lens—a truly capable performer. Fully equipped and fully keyed to cover any photographic assignment thoroughly and expertly. Has all the equipment for hair-line exposure with 35mm. **color or black and white** film in standard cartridges.

Built-in Exposure Calculator—a glance at the built-in exposure counter insures exact lens setting.

Built-in Flash Synchronizer—using the dependable Mercury Flash Unit

Coupled Range Finder and View Finder—finger tip control.

Versatile shutter speeds from 1/10th to 1/300th of a second.

Special automatic film transport. Eliminates any possible double exposures. Shutter release has many automatic lock functions which make double exposure impossible. No exposures can be made until film counter is in position. No shooting past the limit of exposures. No chance for accidental exposures when lens mount is retracted. Black bakelite body and metal back.

Precision-built mechanism throughout—a check of its features and camera will sell itself.

424Q803.....EACH **$42.25**

THE MERCURY II

This outstanding camera is especially designed for taking color photos. Coated F:2.7 Lens.

Extreme Depth of Focus—25mm. focal length lens gives greater depth of field.

Superb All-Metal Rotary Focal Plane Shutter—insuring accurate shutter speeds to 1/1000th of a second.

Supreme Lens Accuracy—developed while producing lenses to microscopic tolerances for Army and Navy. Lenses are coated for increased transmission of light and cutting down glare and reflection.

Built-in Photoflash Synchronizer—automatically and accurately synchronized with shutter

Automatic Exposure Counter—shutter winding knob automatically resets shutter, counts exposures, and transports film—all in one operation.

Automatic Film Transport—foolproof device that makes double exposures impossible.

Built-In Exposure Calculator—integrates numerous factors affecting exposure.

Lightweight Aluminum Body—handsomely styled, extremely light in weight. Hinged back for quick, easy loading.

Film Economy—using standard 35mm. black and white or color film cartridges. By using only single frame, MERCURY II gives 32 negatives with 18-exposure roll, and 65 negatives with 36-exposure roll. Cuts color photography almost in half.

424Q580—Retail $82.50.....EACH **$53.89**

UNIFLEX CAMERAS

The new Uniflex Reflex Cameras permit you to see your exact picture. No more cut off prints—the subject is exactly as desired. Both Uniflex Reflex Cameras listed below have these features.

- Die-cast aluminum body with Morocco grain covering
- Tripod socket in base
- Synchronized shutter for flash
- Self-erecting hood
- Focusing of 3 feet to infinity
- Uses 120 or 620 film
- Takes 12 pictures 2¼x2¼" on a regular roll

Check these additional features:

- Front surface reflex mirror
- Hi-power magnifying glass
- Ground glass focusing viewer
- Direct viewer
- Movable lens platform

Uniflex Reflex Camera with coated F:3.5 taking lens, F:4.5 viewing lens, and shutter speeds from 1/25 to 1/200th of a second.

424Q842.....EACH **$36.75**

Uniflex Reflex Camera with coated F:4.5 taking lens, F:3.8 viewing lens, and shutter speeds from 1/10 to 1/200th of a second.

424Q843.....EACH **$48.75**

EVEREADY CASES FOR UNIVERSAL CAMERAS

Designed especially for the protection of the camera's precision mechanism. Permits picture taking without removing camera from case. No misplacing cases—attached at bottom—leaves hands free. Complete with shoulder strap

For Mercury II Camera.
Retail $7.25.
424Q981...EACH **$5.07**

For Buccaneer Camera.
Retail $7.25.
424Q804...EACH **$5.07**

For Roamer Camera.
Retail $7.50.
424Q835 EACH **$5.25**

For Uniflex Camera.
Retail $9.95.
424Q844...EACH **$6.97**

UNIVERSAL FLASH

For use with Universal cameras. (All cameras shown on this page.) This fine photo-flash unit enables user to get clear, sharp pictures at night. Slips quickly onto the clip of the built-in synchronizer. Polished reflector, bakelite battery cover. Retail $7.50.

424Q278.....EACH **$5.43**

Flash Cable Attachment—for use with the Roamer camera. Retail $1.85.

424Q936.....EACH **$1.37**

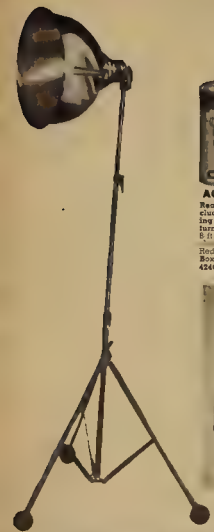
ALL PRICES WHOLESALE NET, LESS 2% DISCOUNT FOR CASH

ROAMER II FOLDING FLASH CAMERA

The Roamer II Folding Camera contains all the desirable features plus an attractive price. **Check these features:** Dual film use—either 120 or 620, 8 pictures 2¼x3¼", eye-level view finder, waist level view finder, all aluminum die-cast body, automatic roll film adjustment, built-in flash synchronizer, tripod socket. Fitted with 100mm. F:4.5 meniscus, color corrected lens in an automatic, self-cocking shutter, speeds from 1/25 to 1/200th of a second, and bulb. Can be used for flash pictures using the Universal flash unit and cable. Body shutter release.

424Q624—Retail $40.00.....EACH **$31.20**

Acme-Lite Photoflood Reflectors & Lite Stands

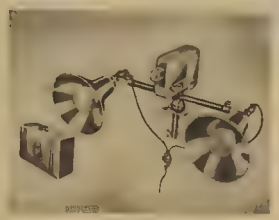


MODEL No. 1200-F . . . A complete one-lite combination unit for portrait or home movies [illegible] Separate extension for 6 ft. [illegible] stem is in a separate compartment for convenience [illegible] protection against damage. Retail $6.50.
424Q728 ..... EACH **$4.40**

Flywate Champion Stand. 3 sections that fold to only 18" and extend to 6 ft. with separate 18" extension [illegible] thumblatch prevents denting of tubular sections. Weighs only 2 lbs. Retail $3.95.
424Q728 ..... EACH **$2.64**

ACME-LITE—3-WAY HANDCLAMP LITE-KIT

Ready for immediate use with RFL and RSP bulbs (bulbs not included). Smallest complete lighting outfit on the market, including three No. 47 Handclamp sets with built-in Turn-Nob switch—turns lite on-off. Socket encased in polished aluminum housing. 8 ft approved cord, cool, neoprene finger knob, spring band. [illegible] "no-droop" fittings. Packed in handsome 3-section Red and Black box with telescoping cover. Counter Display Box. Retail $5.85.
424Q732 ..... PER BOX **$3.90**



ACME—CAMERALITE

Here is the new, easy, and low cost way to take home movies. It's a simple operation with the Cameralite—set camera in position, focus it on subject, and you release the [illegible] Polished metal reflectors are attached to telescopic metal extensions permitting adjustments from 7 to 28 inches [illegible] camera. Takes 3-150 Watt Bulbs not included.
424Q783 ..... EACH **$7.97**

MODEL No. 2200-F . . . This deluxe combination Tu-Lite unit provides 1500 watts of illumination for color or black and white indoor shots [illegible] to accommodate unit. Retail $12.50.
EACH **$8.34**

Wellerwate Champion Stand [illegible] tends to height of 8 ft., folds to 31". Retail $8.85.
424Q962 ..... EACH **$5.97**

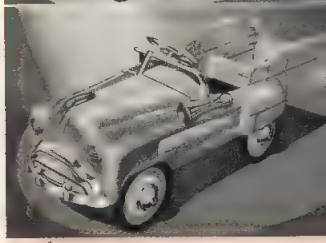
PACKAGED LIGHTING—A COMPLETE PORTABLE OUTFIT

ACME-LITEPAK No. 1 . . . A New Lighting Idea

Here's a new indoor photographic lighting development . . . a complete lighting outfit scientifically designed to give everything needed for good pictures all in a single carry-all package. Low cost too! **The Litepak consists of a specially designed durable container divided into several compartments. This means a separate section for each of the following items: Two** [illegible] **one** [illegible] reflector, 15 ft of heavy cable extension cord with **3-way** service block, and 10 amp. feed through switch. An exceptionally fine feature is the colored plastic handle between heavy metal posts. Another feature is the separate compartment for three stands, such as the Flywate stands listed on this page. **Four tested lighting plans are included to insure superior picture results.** The 3 Flywate stands enclosed fit into the special stand compartment. Large Adapto-Ball stud is supplied for each stand. Actually made up into 3 complete one-lite combinations. **Retail $22.50.**

424Q731 ..... EACH **$15.00**

Symbol of Quality

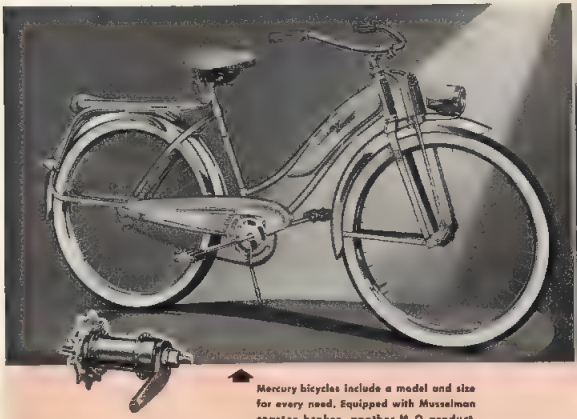


MERCURY Wheel Goods
MURRAY-GO-ROUND Baby Walker
MERCURY Bicycles
MUSSELMAN Coaster Brakes

Our goal during 1951 is to produce as much as possible and to distribute it fairly within the limitations of material shortages beyond our control . . . At the same time, the famous reputation for quality of Murray Ohio products will be zealously maintained.

THE MURRAY OHIO MFG. CO., CLEVELAND 10, OHIO

Mercury wheel goods include autos, trucks, wagons, velocipedes, chain-driven tricycles, and park cycles.



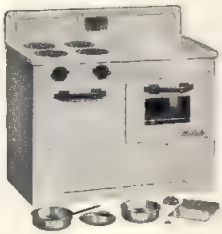
Mercury bicycles include a model and size for every need. Equipped with Musselman coaster brakes, another M-O product.

Murray-Go-Round is the sensation of the baby walker field because of many unique features.

"Little Lady" ACTION TOYS

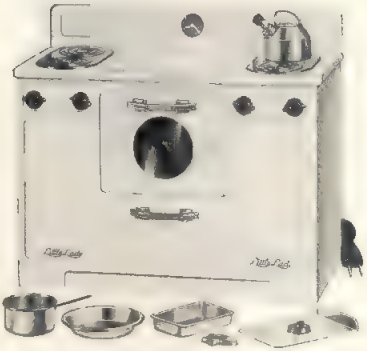
Sell Fast Because They're Like the *Real Thing*...!

Toy Ranges, Flat Irons, Ironing Boards that Really Work...Just Like Mother's



Realistic Play Stoves

Loads of play value! Equipped with utensils; play switches; windows in oven doors. Electrically welded steel construction. Baked enamel finishes. The realistic "LITTLE LADY" non electric play stoves are ideal for the little tot who is too young for the "LITTLE LADY" Electric range.



No. 240—Large 15" Electric Range

Listed by Underwriters' Laboratories. A real scale model toy electric range of finest quality. Does real cooking and baking, with separate elements for burners and ovens. Heavy welded steel construction—beautifully enameled in new combination colors. Permanently attached cord set.

Retail: $8.95

Other electric models from $3.95 and up.

IRONING BOARD

28" x 8" stands 22" high. Sturdy construction, like modern Big Iron ing boards. Red enameled braces and legs. Folds flat. Double-lock braces for rigidity. A real quality board—a honey for your money!

FLAT IRONS

Toy Play Iron for tiny tots and real Electric Irons that really iron! Listed by Underwriters' Laboratories. Streamlined, heavy cast soleplate heating element fully insulated. Will not overheat.

See Our Display at the NEW YORK TOY FAIR—March 5-16

Room 954—Hotel McAlpin . . . Room 415—Fifth Ave. Bldg.

THE METAL WARE CORPORATION
TWO RIVERS, WISCONSIN

NEW YORK, 200 5th Avenue
CHICAGO, Room 1417A Merchandise Mart

Miniature Electric Ranges

Tacoma Metal Products Co.

Little Chef

Stove cooks and bakes. Has two switches, two 5000-hour pilot lights, two ovens. Pilot lights and switches operate the oven and burner surface separately. Complete with 8 piece utensil set and cook book. Individually boxed.

Stock No.	Mfr's. No.	Size In.	lb Each	Fact. List EACH
4H 2722	1000S	15¾x11¾x8	8½	$18 (N)

Six in a carton.

A perfect miniature electric stove. Separate enclosed element heats the top and oven. Pilot light glows when stove is on. Equipped with 6 piece cooking utensil set and cook book. Individually boxed.

Stock No.	Mfr's. No.	Size In.	lb Each	Cat. List EACH
4H 2721	300	13¾x11¾	8½	$9 00

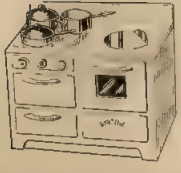
Six in a carton.

Replica of modern electric range. Large cooking surface heated by enclosed element. Large oven. 3 piece utensil set and cook book. Individually boxed.

Stock No.	Mfr's. No.	Size In.	lb Each	Cat. List EACH
4H 2717	500S	11½x9½	4½	$5.20

Six in a carton.

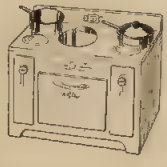
Non-Electric Stoves



A non-electric play stove with four simulated burners. Turning knobs and large oven. Complete with 5 piece cooking utensil set. Individually boxed.

Stock No.	Mfr's. No.	Size In.	lb Each	Cat. List EACH
4H 2718	400	13¾x11¾x8	8½	$5.00

Six in a carton.



This non-electric stove is a duplicate of the modern ranges in use today. Has 4 simulated burners, oven and turning knobs. Complete with cooking utensils. Individually boxed.

Stock No.	Mfr's. No.	Size In.	lb Each	Cat. List EACH
4H 2715	300	11½x9½x7	5½	$3 00

Six in a carton

Mitchell LIVING IMAGE television

Retail $269.50
Plus $1.65 F. E. T.
1RMT168
Mahogany Finish
Dealers each, Net
$188.65
Plus $1.65 F. E. T.

Retail $269.50
Plus $1.65 F. E. T.
1RMT168
Blonde Finish
Dealers each, Net
$188.65
Plus $1.65 F. E. T.

Mitchell Television receivers not included in our prepaid freight offer

with the 16-inch *"Studio-View"* picture tube

NOW you can enjoy "Living Image" Television, exactly as telecast . . . as real as life itself on the new 16-inch rectangular screen. You see *all* the picture with "STUDIO VIEW" realism—rich in contrast, crisp and sharp—kept absolutely steady by the automatic Synchro-Hold circuit feature. Automatic Gain Control assures photographic realism under all viewing conditions. Tuning is simplicity itself with the 12-position All-Channel Selector that brings both picture and sound in right "on the beam"—automatically synchronized. The built-in Magna-Tenna does away with awkward antenna installations in most locations. And for your complete enjoyment, the MITCHELL "Living Image" picture is matched by a quality of tone so realistic, so true, you'll feel you're hearing as well as seeing the program right in the studio. Your Mitchell Television receiver is housed in a custom-grade cabinet, using only the finest woods. Available in Blonde or Mahogany finish—hand-rubbed to smooth, lustrous perfection

SYNCHRO-HOLD TUNING

Automatically "locks in" the picture keeps it bright, clear, steady. Screens out interference so picture stays movie-clear on all programs.

EASY BEAM TUNING

Single knob brings in sound and picture *automatically synchronized*. Fine adjustments, seldom necessary, are on front panel. Tuned all U.S.TV channels.

PIN-POINT FOCUS

Special circuit feature automatically builds up a sharp, strong, full-contrast picture. 16" tube is virtually flat, shows no distortion.

BUILT-IN MAGNA-TENNA

Latest type built-in antenna, fixed for maximum signal pickup. No adjustments necessary. Outside antenna can be attached for fringe area use.

AUTOMATIC GAIN CONTROL

Keeps picture contrast and clarity constant holds sound volume uniform. Automatically bans flutter or "tearing" caused by electrical interference.

SUPERB FM TONE

Exceptional high fidelity, static-free FM. Powerful Alnico-5 PM dynamic speaker in a large baffle area reproduces every note with crystal clarity

Specifications:

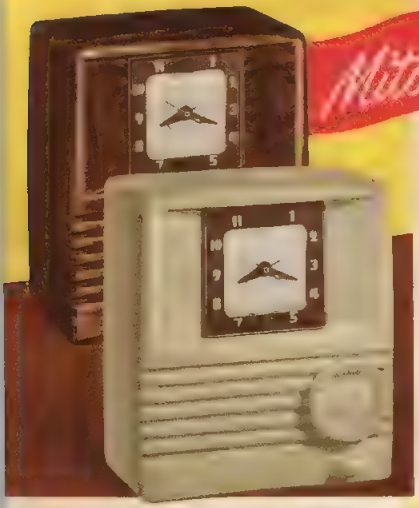
Advanced Television circuit design. Features 16-inch Rectangular Dark-Faced Picture Tube. Includes built-in Magna-Tenna, Synchro-Hold Picture Stabilizer, continuous type All-Channel Station Selector, Automatic Gain Control, Alnico-5 PM Dynamic speaker, connection for attaching automatic record changer or phonograph player. Chassis incorporates twenty tubes, including Kinescope and two rectifiers. Console measures 36" high, 22" wide, 19¼" deep. Shipping weight, 110 lbs.

Mitchell TV

brings you

ALL THE ACTION

sharp, clear, real as life!



Mitchell

Best Selling... RADIO SPECIALTIES

Tone Alarm ELECTRIC ALARM CLOCK-RADIO

Wake up to music with the MITCHELL "*Tone Alarm*"—the last word in a luxurious combination electric alarm clock-radio! Just set the alarm before retiring—"*Tone Alarm*" wakes you at exactly the right time with the gay music of your favorite morning program If you doze again, automatic buzzer goes into action. Also has outlet for electric appliances—shuts off sunlamps, coffee makers, etc.,—it's the perfect self-timer for hundreds of uses. Genuine Telechron clock has sweep-second hand, large clear numerals. "*Tone Alarm*" incorporates an advanced superheterodyne radio for lifelike, "big-set" performance Tunes full 540-1620 kc AM band. Has a highly sensitive built-in "Air Magnet"—no aerial or ground needed Easy-to-read dial for quick tuning. Latest type PM dynamic speaker. "*Tone Alarm*" is a lifetime package of pleasure and convenience—ideal for any room in the home. In choice of smooth Ivory or figured Mahogany plastic Size: 9¼" high, 8¼" wide, 5" deep For 110-125 volt 60 cycle A.C. Packed 1 to a carton, shipping weight, 7 lbs.

Retail $33.95 Specify color when ordering
1RM1267 Dealers each $23.77 Lots of 4, each $22.63 Less 2% net $22.18

Lullaby THE FAMOUS BED LAMP-RADIO

Here's the smartest bedtime story ever told! Read under perfect light that's kind to your eyes—while your favorite radio program plays softly in your ears. The *Lullaby*, styled like a dream in gleaming plastic, combines a true-toned quality radio with a scientifically designed reading light The easy-to-tune radio features an advanced superheterodyne circuit, with built-in "Air Magnet" that eliminates aerial and ground wires. A powerful PM dynamic speaker assures clear, undistorted tone. Covers complete AM broadcast band —540-1620 kc. The bed lamp consists of a powerful tubular type lamp and frosted curved lens for maximum glareless light. Lamp and radio operate separately or together, as desired. Adjustable brackets fit any bed. In choice of sleek Ivory or deep-toned Walnut. Size: 9½" long, 5¾" wide, 7" deep. For 110-120 volt, 40-60 cycle A.C., or D.C. Shipping weight, 6 lbs

Retail $29.95 Specify color when ordering
1RM1250 Dealers each $20.97 Lots of 4, each $19.97 Less 2% net $19.57

Lumitone TABLE LAMP-RADIO

An unusual combination of fine lighting and superb radio entertainment in one unit. *Lumitone* is a beautifully styled table lamp, molded in smooth cream-colored plastic, with a powerful, clear-toned radio mounted in the base Lamp provides three-way lighting—50-100-150 watt— with opal plastic bowl for glarefree reading comfort. Shade is top quality Celanese taffeta. The radio is a sensitive superheterodyne with built-in "Air Magnet"—no aerial or ground needed. Covers 535-1720 kc AM band, reproducing all standard broadcast programs with clear, life-like tone through advanced design PM dynamic speaker. Perfect for home or office Operates on 110-120 volt 60 cycle A.C., or D.C. Overall height 21⅝"; shade diameter 16". Shipping weight 13 lbs.

Retail $39 50

1RM1260 Dealers each $27.65 Lots of 4, each $26.33 Less 2% net $25.80

Tone Alarm, Lullaby and Lumitone radios may be assorted to obtain quantity price

The Linda Series

- 14"-16"-18" SOFT DOLL – MASK FACE. Twelve different colorful styles in bright pastel shades of taffetas, corduroys, silks, ninons, etc. Expertly finished and individually boxed. ***The leader of its field!***

Modern Doll Company of California, Inc. *invites you to see our exquisite, newly designed line at the showrooms of* **Robert Patterson and Associates** *-- Room 202-204 -- 200 Fifth Avenue, New York City.*

The Hon-Y-Bun Series

- 16" up. SOFT VINYL HEAD with the sensational new **"MOVING EYES."** Vinyl arms and legs with crying voices. Beautifully finished in flowered ninon material. Individually boxed. ***It's really a hon-y-bun!***

The Brother and Sister Set (Also other styles)

- 13" soft latex body, comp. head with movable eyes. Corduroy suit and dress. Coos when you squeeze. Individually boxed. ***A proven fast moving seller!***

- ***Exclusive California Creations***
- ***Styled by Master designers***
- ***Priced for promotional advertising***

Brochures and price list forwarded immediately upon request.

The Baby Diane Series

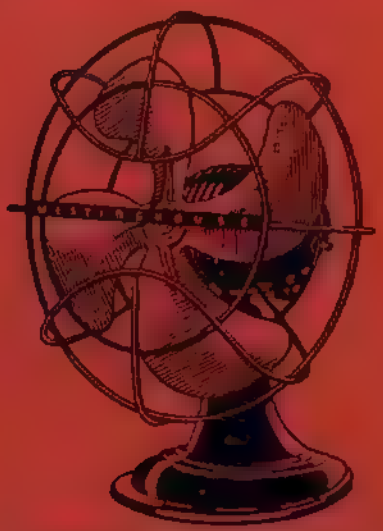
- 16" to 25". PLASTIC, VINYL, and COMPOSITION Sleeping eyes. Crying voice. Gorgeously dressed in assorted colored ninon dresses. With and without wigs. Smartly packaged in individual boxes. ***(Priced to sell.)***

MODERN DOLL COMPANY of CALIFORNIA, INC.

939 Santa Fe Avenue, Los Angeles 21, California

Westinghouse FANS for COMFORT-COOLING!

Handsome, modern Styling . . . Streamlined for Super Air Flow. Powerful Westinghouse induction motor (no radio interference) operates on 115 volts, A.C., 60 cycles only. Reinforced, one-piece welded steel wire guard. Complete with off-on switch, cord and plug.



1950 "Livelaire" 10" Oscillating Desk Bracket Fan —Model 10-LA-2. Beige, baked-on enamel finish. 3 powerspheres polished aluminum blades. Fan is adjustable for wall mounting. 1-speed, [illegible] switch. Retail $[illegible] (tax included)

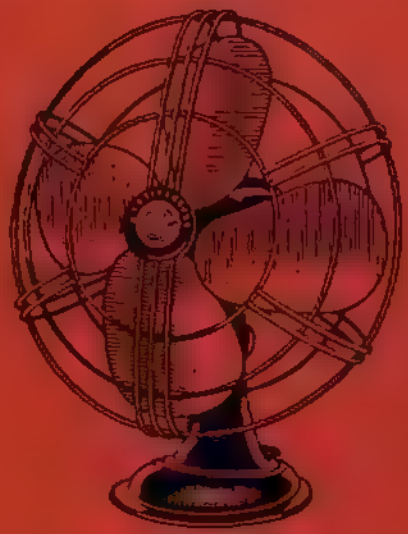
No. 3C21. Each ..... 11.70 (Tax Incl.)
In lots of 6—Each..... 11.18 (Tax Incl.)

1950 Poweraire 10" Oscillating Desk Bracket Fan —Model 10-PA-3. 10" Fan — PLUS 3-speed, snap-type switch, increased air delivery, and specially designed powersphere polished aluminum blades. Retail 26.95 (tax included)

No. 3C19. Each ..... 18 90 (Tax Incl.)
In lots of 6—Each..... 17 98 (Tax Incl.)

1950 "Leader" 10" Non-Oscillating Desk Bracket Fan —Model 10-LD. Platinum blue, baked-on enamel [illegible] powersphere blade. Easily adjustable for wall mounting. Knurled [illegible] oscillating gears. Fan adjustable to air direction [illegible]

No. 3C[illegible] Each ..... 8 94 (Tax Incl.)
Lots of 6—Each ..... 8 55 (Tax Incl.)



1950 "Scandard" 16" Oscillating Desk Bracket Fan —Model 16-SD-3. Ultra quiet 16" Micarta blades. Crystal gray, baked-on enamel finish. 14° oscillation arc, oscillation center adjustable. 3-speed, snap-type switch. Fully [illegible] motor. Easily adjustable for wall mounting. Retail 44.95 (tax included).

No. 3C8. Each ..... 31.02 (Tax Incl.)
In lots of 6—Each..... 29.67 (Tax Incl.)

1950 "Poweraire" 10" Oscillating Desk Bracket Fan —Model 10-PA-2. Crystal gray baked-on enamel finish. Easily adjustable for wall mounting. Deep pitched, ultra quiet Micarta blades. Fully enclosed, automatic clutch oscillating mechanism. 2-speed, snap-type switch. 75° oscillation arc. Retail 26.95 (tax included)

No. 3C4. Each ..... 18.60 (Tax Incl.)
In lots of 6—Each..... 17.79 (Tax Incl.)

1950 Poweraire 12" Oscillating Desk Bracket Fan —Model 12-PA-2. Includes [illegible] features of No. 3C4 10" Fan PLUS 3-speed, snap-type switch, increased air delivery and [illegible] adjustable. Retail 44.95 (tax included)

No. 3C20 [illegible]
In lots of 6—Each..... 29.67 (Tax Incl.)

1950 Poweraire 16" Oscillating Desk Bracket Fan —Model 16-PA-3. All attractive features of 10" and 12" fans, with 3-speed, snap-type switch, PLUS—increased air delivery. Retail 54.95 (tax included)

No. 3C[illegible] Each ..... 37 92 (Tax Incl.)
In lots of 6—Each..... 36 27 (Tax Incl.)

1950 "Debonaire" Floor Circulator Fan with the New Air-Jet Principle—Model 16-MA-2. [illegible] including jet action with "Air Injector" rings, enable delivery of more air just where it is wanted without annoying drafts. Three specially designed [illegible] blades. Constructed of light-weight, [illegible] formed steel. Versatile and safe. [illegible] Easily portable. Beautifully styled in [illegible] enamel finish with chromium trimming. Overall dimensions, 13¼" diameter, 18" high. Single speed "on" and "off" switch. Retail 34.95 (tax included).

No. 3C16. Each ..... 24 [illegible] (Tax Incl.)
In lots of 6—Each..... 23 07 (Tax Incl.)

1950 "Mobilaire" Double Duty Window Exhaust Fan with the New Air-Jet Principle—Model 16-MA-3. Air delivery is double that of average 16" fan. Distinctively-styled baked-enamel, [illegible] chrome. Provides comfort cooling day and night. Properly used, it can change the air in 5-room apartment every two minutes. Requires no installation. Four [illegible] blades with rounded edges. Guard grilles of mesh woven steel wire on front and rear, chromium finish. Five "Air-Injector" rings [illegible] Reinforced [illegible] Recessed [illegible] operation. Recommended to operate [illegible] Retail 79.95 (tax included).

No. 3C17. Each ..... 55.17 (Tax Incl.)
In lots of 3—Each..... 52.77 (Tax Incl.)

Westinghouse

The Nationally Advertised Fan of Proven Quality and Performance

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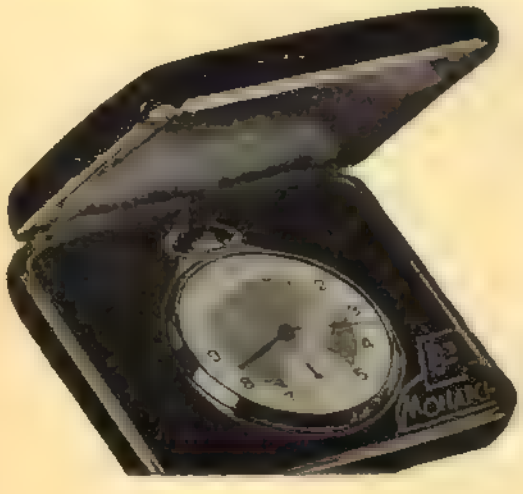


Monarch

THIN MODEL POCKET WATCHES

Fine quality movement. Chrome plated, stainless steel, yellow rolled gold plate cases. Attractive dials with second hands.

No. SW15. 7 Jewel movement Chrome plated case. Retail 12.95.
Each **9.88**

No. SW52. 17 Jewel Anti-Magnetic movement. Stainless steel case. Retail 39.50
Each **16.50**

No. SW45. 17 Jewel movement. Yellow rolled gold plate case. Retail 39.50
Each **16.50**

SPECIAL BUY!!

17 Jewel Waterproof Wrist Watch

INCABLOC MOVEMENT

Radium Dial

Sweep Second Hand

Chrome plate case with stainless steel back. Stainless steel expansion band. Each in gift box.

No. SW161. EACH ONLY **$13.50**

Monarch Radios – Record Changers

MONARCH
PERSONAL COMBINATION 3-WAY AC/DC and BATTERY RADIO

Luggage Style Portable Cabinet. In red, green or brown alligator fin bottle Leather handle. Measures 5¼ inches x 8 inches x 4¾ inches.

Superheterodyne Circuit. With 4 RCA licensed radio tubes plus rectifier. Has two dual purpose tubes. 3½ inch PM dynamic speaker with Alnico No 5 permanent magnet. Square A plastic front Automatic volume control circuit. Standard broadcast band 535 Kc to 1650 Kc. Built-in loop antenna. Power changeover switch located on front panel of the set for 3 volt AC or DC power line source or the self-contained batteries. Size 10"x6¾"x6". Weight approximately 6 pounds (less batteries). Requires one 67½ volt B battery and two 1½ volt flashlight A batteries. Retail 49.95

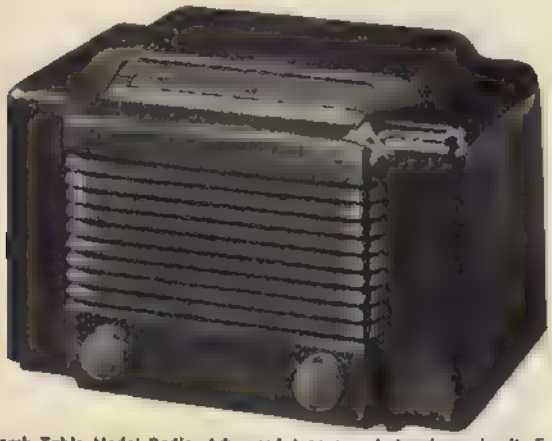
No. 3A37. Lots of 6 Each 17 96
Each 18 86

BATTERIES

No. 3AS3. 67½ volt B battery. Retail 2.50 Each 1 93
No. 3AS4. 1½ Volt A battery. Retail 12¢ per dozen 1 08

Battery Set for Model No. 3A37. Contains 67½ volt B battery and two 1½ volt flashlight type A batteries. Retail 2.95

No. 3AS5. Per set 2.02



Monarch Table Model Radio. Advanced type superheterodyne circuit. 5 tubes, including rectifier. 3 dual purpose tubes. P.M. dynamic speaker with Alnico V permanent magnet. Illuminated rectangular slide rule dial. Automatic volume control. Built-in loop antenna. Size 10"x6¾"x6". Walnut or ivory plastic cabinet. 105-125 50-60 cycles AC, DC.

No. 3A6. Walnut. Retail 17.95
Lots of 6 Each 12 96
Each 13 86

No. 3A7. Ivory. Retail 19.95
Lots of 6 Each 14 36
Each 15 26

Monarch Combination Radio and Phonograph. Table model with 4" PM dynamic speaker with newly developed Alnico No. 5 permanent magnet. 4 tubes including Rectifier. Built-in antenna. Slide rule type dial with tuning. Automatic Volume control. Three-position control switch located on front panel of cabinet. Self-returning tone arm with 7" turntable. Light weight crystal pickup arm with arm rest. Attractive modern design cabinet in walnut finished wood cabinet with lid cover. Plastic grille. Measures 24 3/8"x 2¾"x7¼". Retail 34.95

No. 3A16.
Lots of 6 Each. 24 47
Each 25 97

Same as above in combination Radio and 3-SPEED Table Model Phonograph

Has smooth operating electric motor with 8" turntable. Simply switch arm for adjustment from 33⅓ to 45 or 78 rpm turntable speeds. Retail 44.95.

No. 3AS6. Lots of 6. Each 31.47
Each 32 37

Monarch AC/DC Plastic Table Model Radio. Latest advanced type superheterodyne circuit licensed under RCA and Hazeltine patents. 4 tubes and rectifier including two dual purpose tubes. Illuminated rectangular slide rule dial. Automatic volume control circuit. Standard broadcast band from 535 to 1725 Kc. Built-in loop antenna. Operates on 105-125 volts, 50-60 cycles AC or DC. Artistically designed plastic cabinet in choice of bottle walnut or ivory finish. Size 10⅝"x6⅝"x6".

No. 3A75. Walnut. Retail 19.95.
Lots of 6 Each 14 25
Each 15 35

No. 3A76. Ivory. Retail 21.95
Lots of 6 Each 15 67
Each 16 80

Monarch 6 Tube AC/DC Plastic Table Model Radio. Latest advanced type superheterodyne circuit. 6 tubes. 5" PM Dynamic Speaker with new developed Alnico No. 5 permanent. Illuminated slide rule dial. Built-in loop antenna. Operates on 105-125 volts, 50-60 cycles AC or DC. Available in Walnut or Ivory color plastic cabinet. 10"x6⅝"x6".

No. 3A43. Walnut. Retail 21.95.
Lots of 6 Each 17 71
Each 18.61

No. 3A44. Ivory. Retail 24.95
Lots of 6 Each 19 13
Each 20 03

Monarch Deluxe 3-Speed Automatic Record Changer Radio-Phonograph. Table Model. Latest advanced type superheterodyne circuit 4 tubes including 2 dual purpose tubes giving 6 tube performance. Very sensitive tuning. Powerful 5" PM dynamic speaker. Extra large built-in speaker for clear, natural reproduction. Slide rule dial with illuminated pointer. Standard broadcast band 535 kc to 1700 kc. Built-in loop antenna. Operates on 105-125 volts 50-60 cycles AC only. Beautifully finished cabinet in walnut top and front. Over-all dimensions 15 inches wide, 9 inches deep, 9 inches high.

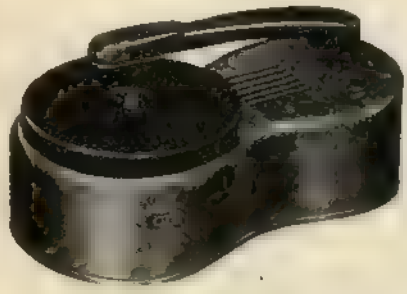
Famous Webster-Chicago Model 346 3-speed automatic record changer. Simple, foolproof operation. Provides automatic playing of seven 12-inch records at speeds of 33⅓, 45 or 78 rpm. Built-in life time needles for 78, 33⅓ or 45 rpm playing. Retail 89.95.

No. 3A57. Lots of 6, each 60 00
Each 61.35

PHONOGRAPHS

Electric Phonograph. A fast selling phonograph in the cheaper bracket. Plastic cabinet, size 13"x9"x5". Weight 6 lbs. Rich full, acoustic chamber tone. Self starting motor with on and off switch. Foolproof pickup and balanced tone arm. Plays all standard records. 105-125 volt, 60 cycle AC. Retail 10.95.

No. 11A18. Each 7.00



Electric Record Player. 78 R.P.M. motor in colored plastic cabinet. Sensitive tone arm for perfect pickup. Alnico V speaker and powerful amplifier. Special NYLON covering over speaker. Convenient on and off switch. Size 13"x9"x5". Weight 8 lbs. Plays all size records. 105-125 volt, AC current. Underwriters Approved. Retail 19.50.

No. 11A1. Each 14.00

Children's Floor Model Electric Record Player. Sturdy mechanism to withstand rough handling. Not a toy—built with standard quality parts. Precision motor, powerful amplifier, large speaker. Ornamental trim, contrasts with rich washable leatherette. Colorful decals on front. On and off switch and volume control. 20x16x13 inches. 105-125 volt, AC. Individually packed. Retail 24.95.

No. 11A2. Each 19.00

Portable Phonograph. Spring-wound 78 R.P.M. with speed control. Plastic tone arm with volume control. Closed portable type carrying case of substantial wood frame covered with two-tone tan and brown simulated leather. Brown plastic handle. Overall dimensions 13⅜x10¾x5 inches. Retail 22.00.

No. 11A27. Each 15.25

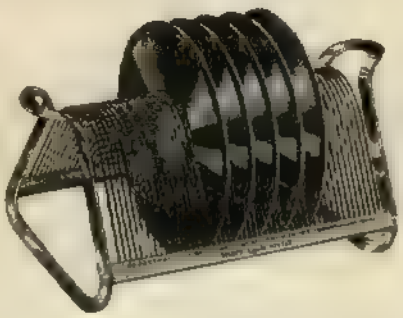
Deluxe 3-SPEED Portable Record Player. Beautiful carrying case covered in washable simulated pigskin leather over sturdy wood cabinet. Plastic palm grip handle. Attractive matching hardware. Plays 3 speeds, 33⅓, 45, 78 R.P.M., with single pickup and needle — no changing — no fussing. Simple switching arrangement for all speeds. Powerful amplifier. Large speaker. Has switch and volume control. Featherweight crystal pickup furnished with long-life metal-tip needle. One needle plays all records. 105-125 volt AC. Weight: 12 lbs. Overall dimensions: 13x10½x5½ inches. Retail 28.50.

No. 11A26. Each.....21.00

Portable Phonograph. Sturdy electric motor in all-wood cabinet. Covered with washable simulated pigskin leather. Plastic palm grip handle. Attractive matching hardware. A sound performance plays all 78 R.P.M. records. Has 2 watt amplifier, with lightweight crystal pickup. Clear tone through Alnico V speaker. Self-starting rugged Alliance motor with on-off switch with volume control. 105-125 volts, AC. Weighs 10 lbs. Overall dimensions: 12¾x10½x5⅛ inches. Retail 20.50.

No. 11A23. Each 15.95

RECORD STANDS and CASES



Record Stand. Records rest safely on rubber cushions. Frame is all steel. Red felt-covered wires with copper plated handles. Rubber protection felt. Holds 50 records of any size. Takes up only 12 inches of space. Handy index included. Retail 3.50.

No. 11A5. Each.....2.75

Record Carrying Case. Handsome two-tone brown and beige light metal case. For carrying your records safely. Holds fifty 10-inch records safely on sponge rubber cushions. Complete index included. Retail 6.50.

No. 11A6. Each. . .. 4.85

.22 CALIBER SINGLE SHOT RIFLES

WINCHESTER
Model 67
Rim Fire
Take Down—Single Shot

Barrel 27 in round, tapered and crowned on the muzzle

Stock Sporting type pistol grip stock with semi-beavertail fore-end of American Walnut Checkered Composition butt plate. Length of pull 13½ in.; drop at comb 1⅝ in.; at heel 2⅝ in.

Action—Bolt action, rebounding type Bolt, bolt handle and safety lock chromium plated. Firing pin head knurled on rim.

Safety -Gun must be cocked by hand by pulling back knurled knob at rear of bolt. Firing pin strikes cartridge only when gun is cocked, unlocked and trigger pulled. It then rebounds away from cartridge head, Safety in locked position interferes with shooter's line of sight, automatically showing safety is on.

Sights—G6701R has a Winchester 75C bead front and 32 open rear sight. No ramp or sight cover. G6780R has a Winchester 97 bead sight on ramp with removable sight cover and Winchester 96 peep rear sight adjustable for elevation and windage Weight—About 5 lbs.

	Each
No. G6701R—22 Short, 22 Long and 22 Long Rifle, open sight .	$13 70
No. G6780R—22 Short, 22 Long and 22 Long Rifle peep sight. .	15 20

Model 67 Junior
Take Down

This rifle, designed expressly for junior shooters, is the same in action and general specifications as the G6701R, illustrated above, except.

Barrel—20 in. **Stock** 1⅜ in. shorter Overall length of arm 34½ in. Length of pull 12⅜ in., drop at comb 1½ in., at heel 2½ in. Weight—About 4¾ lbs

No. G6738R—22 Short, 22 Long and 22 Long Rifle interchangeably ..... Each $13 70

Model 510A
Remington Bolt Action—Single Shot
"Targetmaster"

Calibered for .22 short, long and long rifle without adjustment Regular or High Speed. Barrel 25 inches long tapered, crowned at muzzle. Bolt and handle are case hardened. Stock is of genuine American Walnut. Pistol grip, shotgun style checkered butt plate. Step adjustable sporting rear sight. White metal bead front sight.

No. 510A .....Each $19.95

No. 510P—Point-crometer receiver peep sight with two interchangeable discs. Point adjustments for windage and elevation ..... Each 21.95

Model 514A
Remington Bolt Action—Single Shot

Chambered to take .22 short, 22 long and .22 long rifle without adjustment. Round tapered 24¾ inch barrel, crowned at muzzle. Rotary type thumb safety. Separate automatic ejector. Corrugated trigger. Full size, one piece pistol grip stock of genuine American Walnut. Long full rounded fore-end of semi beavertail type Composition butt plate. Step adjustable rear sight and flat integral bead front sight. Length overall 42 inches. Take down 29 inches. Weight 5¼ lbs.

No. 514A—with open rear sight .....Each $13.95

No. 514P—with Remington receiver peep sight.....Each 15.95

Model 3
Savage Single Shot Rifle
.22 Long Rifle—Rim Fire

Barrel—24 inch round. Tapered with crowned muzzle. Chambered for .22 short, .22 long and .22 long rifle regular or high speed cartridges.

Action—Plated bolt and trigger. Action cocks on opening stroke of bolt. Recessed bolt face—bolt head encased—positive extraction and ejection Convenient independent safety.

Stock—One piece full pistol grip stock and large, broad forestock of selected walnut, oil finish. Black composition butt plate 1⅝x4½ in. Forestock 1⅞ in. wide at takedown screw, stock over-all length 28¼ in. Over-all length of rifle 43 in.

Sights—Gold Bead Front Sight and Adjustable flat top Rear Sight. Receiver drilled and tapped for Savage No 150 Micro Peep Sight.

Weight—About 5 pounds.

Model 3 . . . . . Each $14 00

Model 3-S

Same specifications as Model 3 except fitted with No. 150 Micro Peep Sight and No. 150 Hooded front sight

Model 3-S ..... Each $17.05

TELESCOPES

Mossberg

Rifles on Which Mossberg Scopes can be Mounted
Those marked * will take #SM4 only
Those marked ** will take #5M4 or #SM4
Those marked *** will take #4M1

MOSSBERG
26B-26C-35-35A-35B-42A-42B-42C-42M . . . . . **
43-43B-44B-44US-45A-45B-46A-46B-46AT . . . . . **
46BT 46M-50-51-51M 51M,b) . . . . . **
151M 152 . . . . . ***
WESTERN FIELD
41-45-46-46A-46B-46C-47-47A-47B 48-390 . . . . . **
491A-495A-497A-498A-498A 498B-497B . . . . . **
MARLIN
A1 A1DL-A1E-50-50E-80C-80DL-81C-81DL . . . . . **
27-38-39-39A 92 97-94 (25-20) . . . . . *
REMINGTON
12-12B-12C-12CS-24-24A-24C-25A (22 Hornet) 121-241 . . . . . **
510-510A 510P-511-511A 511P 512-512A-512P-513S-513T-521T-560 **
33-33A-34-34A-341A-341P-4-5-41-41A-41T-41P-8A-16A . . . . . *
SAVAGE
6-6A-6S 7-7S-19 19H-19L 19M-23A-23AA 23B 23C-23D . . . . . **
14 29-29A-29S-4C-5C-219 . . . . . **
3-3S 3D . . . . . *
STEVENS & SPRINGFIELD)
11 14½ 26 27 12 17 20-27-44-71-75-76-076 85 . . . . . **
87 87A-087-88C-15-51-52-56C-66C . . . . . **
404-414-417-417½ 418-418½-416 416 2 . . . . . **
53D-053D-83-083-056-419 . . . . . *
WINCHESTER
03-53 (25-20) 54 Hornet-56-57-61-63-65 (25-20) 69-69A-72-74-74A-75 **
43 (Hornet) 92 (25-20) . . . . . ▬
06-62-62A-80-80A-67-68-90 . . . . . *
IVER JOHNSON
X-2X . . . . . *
HARRINGTON & RICHARDSON
165-150-150-151 . . . . . **

All the Mossberg and Western Field rifles listed above are already drilled and tapped for telescopes. All of the other makes listed, must be drilled and tapped before our telescopes can be mounted. The Drill size is No. 20 and Tap size No 10-32

No. 4M 4	Each $9 35
No. 5M 4	Each 9 35
No. 8M 4	Each 9.35

COLT AUTOMATIC PISTOLS—REVOLVERS

Super .38 Automatic Pistol

Ammunition .38 Super Automatic High Speed cartridges. Magazine Capacity: 9 cartridges. Length of Barrel: 5 inches. Length Over All: 8½ inches. Weight: 39 oz. Sights: Fixed type ramp front, glare-proofed. Arched Housing. Trigger: Grooved. Hammer Spur. Grooved Stocks. Coltwood, checkered. Finish: Dual Tone blue, glare-proofed.

Super .38 ..... Each $65.00

.45 Automatic Pistol

Government Model

Ammunition: .45 Automatic cartridges. Magazine Capacity: 7 cartridges: Length Over All: 8½ inches. Sights: Fixed type, ramp front, glare-proofed. Weight: 39 oz. Arched Housing. Trigger. Grooved. Hammer Spur: Grooved Stocks: Coltwood, checkered. Finish: Dual Tone blue, glare-proofed.

.45 Automatic ..... Each $65.00

.22 Conversion Unit

Converts the Colt .45 or Super .38 Automatic Pistols to Caliber .22. No tools, no trouble.

.22 Conversion Unit ..... Each $40.00

Woodsman Match Target Model Automatic Pistol

Ammunition: .22 Long Rifle, regular or high speed. Magazine Capacity: 10 cartridges—5 shot magazine also available. Length of Barrel: 6 inches. Length Over All: 10½ inches. Weight: 41 oz. Sights: Coltmaster rear sight with click adjustments for elevation and windage. Trigger: Grooved. Stocks: Coltwood, strongly checkered, with grip adapters in two sizes. Finish: Dual Tone blue, glare-proofed.

Each

Match Target Woodsman—6 in. barrel..$85.00
Match Target Woodsman—4½" barrel.. 85.00

Same as standard morel but equipped with 4½ in barrel, 9 in. overall, weight 36½ oz.

Woodsman Target Model Automatic Pistol

Ammunition: .22 Long Rifle, regular, high speed or high velocity. Magazine Capacity: 10 cartridges. Length of Barrel: 6 inches. Length Over All: 10½ inches. Weight: 35 oz. Sights: Coltmaster rear sight with click adjustments for elevation and windage. Trigger: Grooved. Stocks: Coltwood, strongly checkered, with grip adapters in two sizes. Finish: Dual Tone blue, glare-proofed.

Target Model Woodsman ..... Each $70.00

Woodsman Sport Model Automatic

Ammunition: .22 Long Rifle Cartridges regular, high speed or high velocity. Magazine Capacity: 10 cartridges. Length of Barrel: 4½ inches. Length Over All: 9 inches. Weight: 30 oz. Sights: Coltmaster rear sight with click adjustments for elevation and windage. Trigger: Grooved. Stocks: Coltwood, strongly checkered, with thumb rest. Grip adapters in two sizes. Finish: Dual Tone blue, glare-proofed.

Sport Model Woodsman . . Each $70.00

Colt "Challenger"

Caliber .22 long rifle; magazine capacity 10 cartridges. Fixed type sights; stock Coltwood plastic, strongly checkered. Finish Dual tone blue. Length over all 4½ in. barrel, 9 in.; 6 in. barrel, 10½ in.

Challenger—4½ in. barrel . .... Each $52.50
Challenger—6 in. barrel .. .. Each 52.50

Official Police Revolver

Ammunition: .38 Special (mid-range, regular and high speed loads, including .38-44. Length of Barrel: 5 or 6 inches. Sights: Fixed type, ramp style, glare-proofed. Length Over All: With 6 inch barrel 11¼ inches. Weight: With 6 inches barrel 36 oz.; Trigger; Grooved. Hammer Spur: Checkered Stock: Coltwood Plastic, checkered. Finish: Dual tone blue, glare-proofed.

Official Police .38 special, 5" bbl. Each $65.00
Official Police—.38 special, 6" bbl. Each 65.00

Police Positive Special Revolver

Ammunition: .38 Special (mid-range, regular and high speed loads, including 38-44 Cal. Length of barrel: 4 inches. Length Over All: 8¾ inches. Weight: .22 oz. Sights: Fixed type, ramp style, glare-proofed. Trigger: Grooved. Hammer Spur. Checkered. Stocks: Coltwood Plastic, checkered. Finish: Dual tone blue, glare-proofed.

Police Positive Special—.38 special cal. 4 inch barrel ..... Each $65.00

Detective Special Revolver

Ammunition: .38 Special (mid-range, regular and high speed loads, including .38-44); Length of Barrel: 2 inches. Length Over All: 6¾ inches. Weight: 21 oz. Sights: Fixed type, ramp style, glare-proofed. Trigger. Grooved Hammer Spur: Checkered. Stocks: Coltwood Plastic, checkered Finish: Dual tone blue, glare-proofed.

Detective Special .38 spec., 2 in. bbl. Ea. $65.00

MOTION TOYS *Announce*
Two New MECHANICAL ACTION TOYS

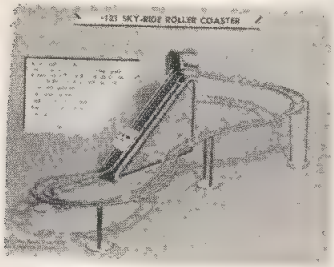
THE WHIP

An original mechanical toy with thrilling action and realism. Powered with our exclusive heavy duty motor, the cars whirl around just like the real "whips" at amusement parks. Beautifully lithographed. 14" wide x 6½" high.

ROCKET AUTO RACE GAME

A terrific dollar value. The plastic cars are propelled by a fool proof powerful mechanism and run long and fast. A real auto race game with innumerable fascinating variations.

$1.00 RETAIL



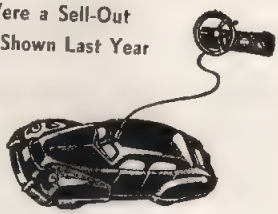
IMPROVED

SKY-RIDE ROLLER COASTER

One of the most spectacular action toys on the market. Big in size, perfectly engineered, delightfully realistic. Heavy repeat orders prove its sales appeal.

TWO FAMOUS BEST SELLERS

That Were a Sell-Out
Wherever Shown Last Year



STEER-IT CAR

The sensational Remote Control Auto that steers like a real auto. Don't miss this proven seller.

Exclusive Sales Representatives

LONG & LIPSON
ROOMS 449-451
200 5th AVE., NEW YORK 10

MOTION TOYS CORP.
ARVERNE, NEW YORK

AMERICA'S ROOT-PROOF PIPE and FITTINGS

Install Orangeburg Sewer Pipe with the new Fitwrap made of famous Orangeburg material and the same root-repelling, leak proof Tarpaulin® Joints. Save money — use this time-tested, root-proof pipe-line for house-to-sewer, house-to-septic tank, conductors from downspouts, other non-pressure, outside uses. Buy Orangeburg Perforated for septic tank beds — for draining cellars, fields, lawns. Send for free folder. Orangeburg Manufacturing Co., Inc., Orangeburg, N. Y.

ORANGEBURG
THE ROOT-PROOF PIPE

SHEAR YOUR OWN SHEEP
Sunbeam with STEWART famous SHEARMASTER

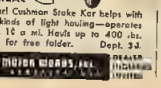
MORE WOOL
MORE PROFITS
LESS LABOR

Ideal for the farm flock tagging, shearing wool-bred sheep

Fast, easy to use Shearmaster trimmer cleans up a low or no cost. Quick and clean hand blades. Motors mounts easily on new or old wood grates. Perfect shearing or trimming of sheep, horses, cattle. Can be used on all types of animals. Shearing equipment, trimming and feeding. Sold direct by Sunbeam. Trigger and wrist grip. Aramid cutting grooming brush and drill head attachments also for use on Shearmaster. Write for bulletin. If you can't get it, write Dept. 33.

Sunbeam CORPORATION
Dept. 33, 5660 W. Roosevelt Rd., Chicago 50, Ill.

FARM EASIER WITH A Cushman



✓EASY TO OPERATE
✓SAVES THE CAR
✓ECONOMICAL

Save that car! Cushman Snake Kar helps with chores—all kinds of light hauling—operates for less than 1¢ a mi. Hauls up to 400 lbs. Write today for free folder. Dept. 33.

CUSHMAN MOTOR WORKS, INC.
LINCOLN 4, NEBRASKA, U.S.A.
DEALER INQUIRIES INVITED

The Santa Fe

(Continued from page 42)

and return that really worried me.

"Shucks, we'll get an auto ride," Fatso said hopefully. "I'll get my dad to ask down at the garage."

When you are fourteen, exciting things sometimes happen, as if the gods were smiling. Fatso and Dan and I caught a one-way ride with a rancher man who had recently bought a big Winton Six, and was going to brave the dirt roads all the way to Fort Worth. He barreled through the mesquites and over the divide with his eye glued to the speedometer, and startled us by a sudden stop in the middle of nowhere.

"Even thousand miles," he boomed cheerfully. "Time to change the crankcase oil."

We stretched our legs while he crawled under the car and drained the crankcase on the road. Then he took a big can from the tonneau, refilled, and drove on.

I FOUND Matt living in a rooming house up near the Santa Fe tracks, but the Lemon apparently had not spent all his chance. He was putting on a clean shirt because he had a date, and I realized sadly that he would n't have much time for me now.

But he walked down the carnival-tented reaches of Chadbourne Street with me, while firecrackers popped and barkers yelled, and more people than I had ever seen jammed the sidewalks. We paused in front of a side show.

"How much money you got, Bud?"

"Five dollars," I said, jingling coins in my knickers pocket.

"Let's go in here. I want to show you something."

What he showed me was a man with three walnut shells and a pea. The man juggled them deftly, but the pea was obviously under the middle shell, and I said so.

"Bet a dollar?" the man said.

MATT moved swiftly, before I could invest my money. He reached with both hands, and picked up the first and third shells.

"The kid must be right," he said softly. "It's not under either of these."

The man's face darkened. "You looking for trouble?" he demanded. "Touch my shells again, and I'll throw you out!"

"You start it, friend!" Matt said easily. "Take my advice, and lay off kids. Come on, Bud."

We went outside again. I started to tell Matt that he had ruined my chances of making a dollar, but he turned on me. "See?" he said. "The pea wasn't under any of the shells. He had palmed it. Just remember that there are a few gyp joints along this street, and you're a sucker if you play their game. Stay out of 'em."

Five dollars went a long way when

THRILLS BY THE MINUTE...
Fun for years!

HARLEY-DAVIDSON
HYDRA-GLIDE

ENJOY LIFE MORE! Get in on the fascinating adventures, endless good times and exciting friendships of motorcycling . . . world's greatest sport! Go on delightful trips. See races, hill-climbs, treasure runs and other thrill events. Visit faraway places . . . all at lowest cost, right at home! It's easy, with a super-smooth riding, powerful Harley-Davidson Hydra-Glide. On farm or ranch use it to save time and money on field trips, errands, going to meetings, neighbors, town. Easy terms. See your Harley-Davidson dealer today.

HARLEY-DAVIDSON MOTOR CO.
Dept. 51 Milwaukee 1, Wisconsin
Send me free copy of ENTHUSIAST Magazine filled with motorcycle action pictures and stories. Also literature on new models.

Name ...
Address ...
City ... State ...

OPPORTUNITY! Valuable franchises available for the full line of famous Big Twins and 125 models. Write today.

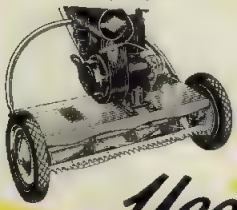
Saves the day that makes the hay!
New MEYER Hay Conditioner

Mow one swath from mower is processed and "fluffed" to speed natural aeration and curing. Retains leaves, protein and carotene (Vitamin A). Hay remains soft and bright. Beats weather hazards — Put up hay the same day. Gains 24 hours over old hay or method. Saves time, labor and food we eat — makes your hay worth more.

Write for FREE Folder and Prices today!
THE MEYER MFG. CO.
BOX 354 MORTON, ILL.
Makers of Famous Meyer Elevators

for

with "Weed-Topper"
(Scout)



Years

"MOTO-MOWER"

best known name in POWER-LAWN-MOWERS

New models of MOTO-MOWER have many exclusive features, including "Weed-Topper", first fundamental improvement in Power Lawn Mowing, now available on "Moto-Boy" and "Scout" (illustrated) models, as optional equipment. So equipped, they top dandelions and other obnoxious weeds, ahead of the reel and it in turn then can cut the weeds off short, at the same time the reel cuts the grass to normal height . . . In addition to the MOTO-MOWERS (reel type), there are two models of "Roto-Mower" (whirl blade) 16" & 20", which are driven by a vertical shaft engine, providing direct application of power to the horizontal (whirl blade), greatly simplifying its design . . . There is a MOTO-MOWER for every purpose, to meet all competition—write for complete information.

The **MOTO-MOWER** *Company* **DETROIT 1, MICH.**

4602 Woodward Ave.

Mention Hardware Age When Writing

Juvenile Vehicles

Murray Ohio

Comet

Dimensions—Length 39 inches, width 17 inches.
Material—Heavy gauge steel used in body and undergear
Wheels—Ball bearing 8 inch, double disc.
Driving Mechanism—Ball bearing pull straps, ball bearing rear axle hangers.
Undergear—New improved design for easier pedaling and more leg room.
Steering Mechanism—New improved design, permitting turning in smaller circles.
Bumper—Front and rear, silver painted.
Radiator Ornament—Chrome plated
Windshield—Enameled Silver
Headlamps—Dummy type, chrome plated
Seat Pad—Fabric type
Tires—¾ inch solid rubber
Horn—Plastic, bulb type.
Pedals—Rubber block
Finish—Body in maroon baked enamel with vermilion steering wheel and vermilion wheels.

Stock No.	Mfr's No.	lb Each	Fact. List EACH
66H 9826	H-830	38	$25.50

One in a carton.

Fire Truck

Dimensions—Length 47 inches, width 17 inches
Materials—Heavy gauge steel used in body and undergear
Wheels—Ball bearing, 8 inch, double disc
Driving Mechanism—Ball bearing pull straps, ball bearing rear axle hangers
Undergear—New improved design for easier pedaling and more leg room
Steering Mechanism—New improved design, permitting turning in smaller circles.
Bumper—Front bumper silver enameled
Fire Chief Bell—Chrome plated
Ladders—Two wooden varnished ladders
Hand Rails—Two tubular rails enameled white
Seat Pad—Fabric Type.
Pedals—Rubber block
Tires—¾ inch solid rubber
Windshield—White enameled
Finish—Body in vermilion baked enamel with white trim

Stock No.	Mfr's No.	lb Each	Fact. List EACH
66H 9839	H 740	40	$25.50

One in a carton

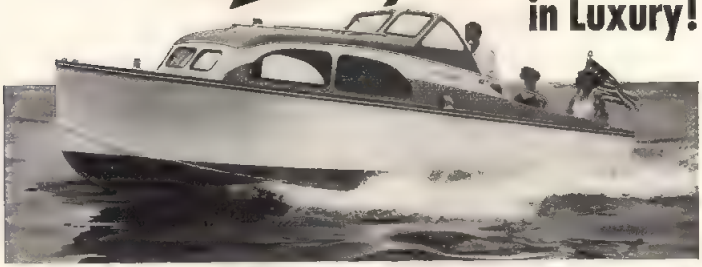
Station Wagon

Dimensions—Length 47 inches, width 17 inches
Materials—Heavy gauge steel used in body and undergear
Wheels—Ball bearing, 8 inch, double disc.
Driving Mechanism—Ball bearing pull straps, ball bearing rear axle hangers
Undergear—New improved design for easier pedaling and more leg room
Steering Mechanism—New improved design, permitting turning in smaller circles.
Bumper—Front bumper enameled in silver
Radiator Ornament—Chrome plated
Windshield—White enameled
Hand Rails—Tubular steel, enameled white.
Seat Pad—Fabric type.
Pedals—Rubber block
Tires—¾ inch solid rubber
Horn—New plastic, bulb type.
Finish—Body and box in maroon baked enamel. Body panels in hazelwood gold.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
66H 9831	H-741	40	$24.50

One in a carton

Now you can *Cruis Along* in Luxury!



Swift...seagoing...family-size ...completely equipped ...moderately priced

Here is your dreamboat!...*A complete Home-on-the-water* for the whole family—for less than a couple of landlubber vacations. Handles easily—no crew needed. Make every weekend a vacation! And make every vacation a glorious experience. Swim, fish, sleep, eat on the water. See your Cruis Along dealer today or write today for complete information on 1951 models now available.

DeLUXE 22 A fast, deep sea worthy hull... speeds to 20 MPH with a sweet purring motor ... 3 cockpit rooms enough for the whole crowd without crowding. Be the Captain of your cruiser for only $2970

DeLUXE 24 More speed! More space! Even greater seaworthy comfort, extra headroom, self bailing cockpit. Speeds up to 30 MPH depending on engine option. Completely equipped, only $3890.

SPECIAL 22 Same motor, hull, superstructure, base equipment ... $2690

SPECIAL 24 Same motor, hull, superstructure, base equipment ... $3540

Prices f. o. b. our yards subject to change

Big, roomy cabin, ocean at view through oversized rain or gas-vented weather proof marine windows. Two big berths with resilient mattresses. Lots of lockers to offer while you spend delightful nights aboard.

Write Dep't MB

Full-sized galley complete for piping hot meals aboard. Stove running water, sink, dish and glass racks, shelves, roomy ice box, dry storage space. Hanging drawers and cupboard storage space, chart rack and large storage compartment under rear seat.

Complete for Comfort. Sea Ch. marine toilet in a separate private compartment (folds away easily for extra cabin space when not in use).

M. M. DAVIS & SON · Solomons, Md. · *Boat Builders for over 70 Years*

RING UP NEW SALES
With These NEA COMIC STARS
31,043,521
Potential Buyers
Captain Easy
A Bull o' the Woods
Major Hoople
Alley Oop
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Freckles
Vic Flint
Priscilla
The Worry Wart
CASH in on the tremendous sales appeal of famous NEA Comic Characters . . . Let them do a sales job for your merchandise, adding new attraction, greater value, point-of-sale recognition. NEA Comics appear in more than 1000 newspapers with 31,043,521 circulation and readership topping 65,000,000 family favorites in key markets for 35 years!
New sales for your present line
Great opportunities for new products! For full information on exclusive franchises, WRITE—WIRE—PHONE—
NEA SERVICE Inc.
The World's Greatest Newspaper Feature Service
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Games

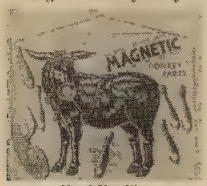
Magnetic Fish Game

Has enameled, magnetized wooden fish, 2 magnets, 2 fishing rods and a fish pond. Offering a lot of play value. Played in or out of doors.

Stock No.	Mfr's. No.	Box Size in.	lb Doz	Cat. List EACH
4H 3508	503	14½x11½x1¾	15	$1.20

Two dozen in a carton.

Magnetic Donkey Party



Novel Novelties

Old familiar party favorite 13⅛x17¾ inch lithographed metal board with heavy reinforced back. 12 tails with permanent magnets attached. Individually boxed.

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
4H 3150	125	1½	$1.10

Twelve in a carton

Magnetic Pick-Up Stix

31 different colored sticks one equipped with strong permanent magnet in a beautiful 3 color box.

Stock No.	Mfr's. No	lb Each	Cat. List EACH
4H 3151	70	½	$0.75

Seventy-two in a carton

Cootie

A party game for baby showers. A new all plastic construction game for adults and children alike. It's a cootie building race. First roll of dice pick up body. Second roll attaches head, etc. Roll any number attach corresponding appendage. Lots of fun for everyone.

Stock No.	lb Dozen	Fact List EACH
4H 1510	8	$2.00

One dozen in a box.

Game

Northwestern

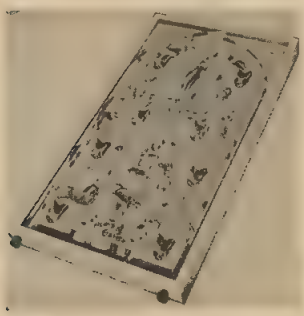
Electr-O-Matic Push-M-Up—Senior

Operation similar to Poosh-M-Up. A full size, play at home pin game with genuine metal balls. Automatic kickers. 9 illuminated pockets, 2 jumpers for extra play. Electrically built, automatic feed and reload. Selected finely finished wood frame. Metal legs. 1 gold, 1 blue and 9 silver balls. Size 28x18x3¾ inches.

Stock No.	Mfr's. No.	Fb Each	Fact. List EACH
4H 4107	470	14	$18 95

One in a carton, three in a shipping carton.

Push-M-Up—Super



A full size battery operated game for adults. Fully automatic. 2 plungers with red plastic domes that light up. Operates on 2 flashlight cells. Glass covered, strongly built of selected, handsomely finished wood. Automatic feed and reload. Metal legs. 1 gold, 1 blue and 9 silver balls. Size 24x14x1 inches.

Stock No.	Mfr's. No.	Fb Each	Fact. List EACH
4H 4106	460	11	$14 95

One in a carton, three in a shipping carton.

Electric Push-M-Up 5

Glass covered. Automatic feed. Safety operated, no danger of shock. Automatic kickers and scoring. Includes 1 gold, 1 blue balls and 9 silver balls. Size 28x18x3¾ inches. Plays one game with one ball. Finished wood frame. Full size play table. Size 24x14x1 inches.

Stock No.	Mfr's. No.	Fb Doz.	Fact. List EACH
4H 4109	482	90	$5 75

One-half dozen in a carton.

4H4112 4H4113

Poosh-M-Up Big 5

Five games in one. Glass covered, fully automatic, select wood frame, folding legs. Brightly colored playing field. One blue, one gold and nine silver balls. 24x14x1 inches. One to a carton.

Stock No.	Mfr's. No.	Fb Doz.	Fact. List EACH
4H 4112	451	80	$5 75

One-half dozen in a carton.

Poosh-M-Up Jr.

Glass covered. Automatic feed and reload. Select wood frame. Folding legs. Nine steel balls of one color and one odd colored ball. Non warping panel, 18x1 inches. Plays four games. One in a carton.

Stock No.	Mfr's. No.	Fb Doz.	Fact. List EACH
4H 4113	441	45	$3.50

One dozen in a carton.

'Storybook Dolls'

by NancyAnn

"WE WILL BE PLEASED TO WELCOME YOU AT ROOMS 614-15 HOTEL NEW YORKER"

BRIDAL SERIES • SEASON'S SERIES
NURSERY RHYME SERIES • FAIRYTALE SERIES
DOLLS OF THE DAY SERIES • DOLLS OF THE MONTH SERIES
FAIRYLAND SERIES • MOTHER GOOSE SERIES
OPERETTA SERIES • ALL TIME HIT PARADE SERIES
COMMENCEMENT SERIES

MOVABLE EYES... that follow you

NANCY ANN STORYBOOK DOLLS, INC.

MANUFACTURERS OF STORYBOOK DOLLS
UNBREAKABLE PLASTIC—MOVABLE HEAD, MOVABLE ARMS & MOVABLE LEGS

1298 POST STREET • SAN FRANCISCO 9, CALIFORNIA

Manufacturer's Representatives

EAST: Joseph J. Barnett, Inc., Room 559, 200 Fifth Avenue, New York 10, N. Y.
WEST: Leo Scherrer Company, 2840 West 93rd St., Seattle 7, Washington
MIDWEST: Hugh D. Kenney, 1443 Merchandise Mart, Chicago, Illinois
SOUTH: Melville Marx, Governor Clinton Hotel, New York 1, N. Y.

'Storybook Dolls'

by Nancy Ann

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NURSERY RHYME SERIES • FAIRYTALE SERIES
DOLLS OF THE DAY SERIES • DOLLS OF THE MONTH SERIES
FAIRYLAND SERIES • MOTHER GOOSE SERIES
OPERETTA SERIES • ALL TIME HIT PARADE SERIES
COMMENCEMENT SERIES

MOVABLE EYES... that follow you

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MANUFACTURERS OF STORYBOOK DOLLS
UNBREAKABLE PLASTIC—MOVABLE HEAD, MOVABLE ARMS & MOVABLE LEGS

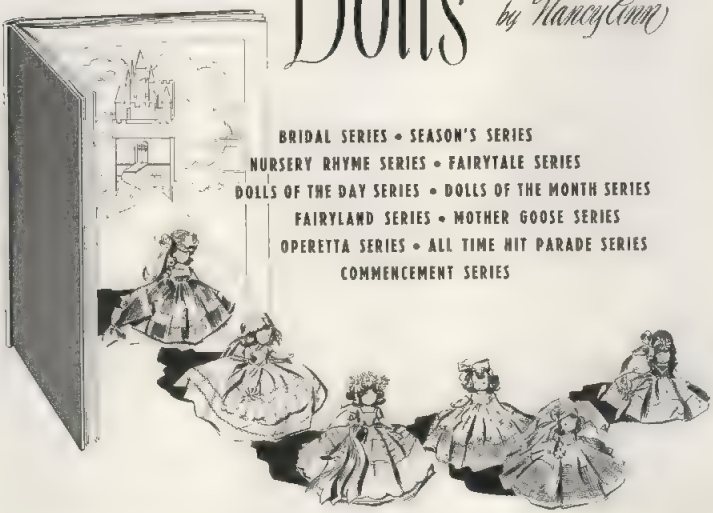
1298 POST STREET • SAN FRANCISCO 9, CALIFORNIA

Manufacturer's Representatives

EAST. Joseph J Barnett, Inc., Room 559, 200 Fifth Avenue, New York 10, N. Y.
WEST: Leo Scherrer Company, 2840 West 93rd St., Seattle 7, Washington
MIDWEST: Hugh D. Kenney, 1443 Merchandise Mart, Chicago, Illinois
SOUTH. Melville Marx, Governor Clinton Hotel, New York 3, N. Y.

'Storybook Dolls'

by Nancy Ann



BRIDAL SERIES • SEASON'S SERIES
NURSERY RHYME SERIES • FAIRYTALE SERIES
DOLLS OF THE DAY SERIES • DOLLS OF THE MONTH SERIES
FAIRYLAND SERIES • MOTHER GOOSE SERIES
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COMMENCEMENT SERIES

MOVABLE EYES... that follow you

NANCY ANN STORYBOOK DOLLS, INC.

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COMING! HALCO'S BIG NEWS for 1951

ALL STAR PERFORMANCE

DOLLS

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Yes, Big News for 1951! Sparkling new Toy Creations! Our biggest line and assortment of designs. Our biggest values—by any comparison. The biggest advertising and merchandising program in our history. Everything to make selling easier and more profitable. Plan now to see the curtain go up on Halco's Big Showing for 1951 at the Annual Toy Fair.

Memo

Plan now for Bigger Spring Sales

- ★ HALCO SUPERB BRAND ROLL CAPS
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MANUFACTURERS OF QUALITY DOLLS SINCE 1915

READY FOR '51
WITH OUR MOST COMPREHENSIVE LINE

Larger • Better Styled • Attractively Priced • "Natural" Quality

WE'LL SEE YOU AT THE

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AT THE SAME OLD STAND

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454 McALPIN

CHAS. COLOMBO
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To insure DELIVERY, the time to place your order is NOW

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See all 3 AT THE TOY FAIR

ROOM 419
200 Fifth Avenue Building

ROOM 1148
Hotel New Yorker

Pat. No. 2,505,428

THE ORIGINAL AIR-FIRE GUN

Always popular — shoots table tennis balls. Beautifully designed and well constructed throughout. Stock and fore grip made from acetate plastic, light walnut finish. Barrel and ammunition chamber made from heavy aluminum. New improved aluminum guide.

$3.45
FAIR TRADED

$5.95
FAIR TRADED

Pat. No. 2,505,428

NEWELL AUTOMATIC 6-SHOT AIR-FIRE REPEATER GUN

No. 595

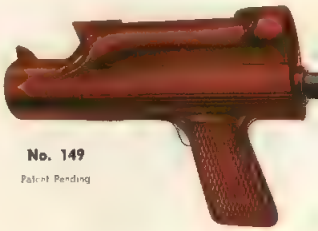
Very durable — shatterproof — Safe plastic. The latest type Air-fire Repeater Gu Fires 6 table tennis balls with one loading. Walnut finish, light weight Lumarith plast stock and serrated firing grip, combined with heavy aluminum barrel and air chambe An irresistible appeal to young and old. Individually packed in attractive 4-color Targ carton, which has plenty of utility value and sales appeal. Packed in either half doz or dozen master cartons.

The Newest

THE ATOMIC "5" PISTOL

Another Newell sensation that uses Table Tennis balls for ammunition — will handle 5 balls with one loading. Light in weight, beautifully designed and finished in Lumarith plastic. Each pistol in an attractively designed display carton.

$1.59
FAIR TRADED



No. 149

Patent Pending

MANUFACTURED BY

NEWELL MANUFACTURING COMPANY

LOWELL, MICHIGAN, U. S. A.

See all 3 AT THE TOY FAIR

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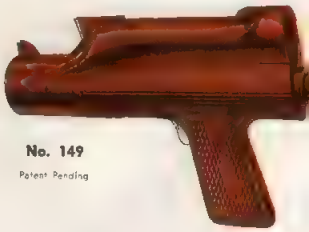


No. 149
Patent Pending

MANUFACTURED BY

NEWELL MANUFACTURING COMPANY

LOWELL, MICHIGAN, U. S. A.

Baseball Catchers' Mitts

Reach—Champion

Juvenile size catcher's mitt. Well constructed cowhide mitt cut in same proportions as full sized mitts

Stock No.	Mfr's. No.	Approx. lb Each	Fact. List EACH
2J 482	235	1	$5.35

Six in a box

Yogi Berra

Hinged modified strip model, made of tan cowhide Regular fingers, laced wrist strap Flat imitation binding Leather laced with leather laced thumb crotch

Stock No.	Mfr's No	lb Each	Fact List EACH
2J 486	280	2	$10.50

One in a box

Reach—Yogi Berra

Large size mitt, made of tan mitt leather Three finger model No thumb or finger loops Jute padded Laced reinforced crotch. Leather crotch lined with whipping on top loops Sheathing padded wrist strap Reined imitation leather binding

Stock No.	Mfr's. No	Approx lb ea	Fact. List EACH
2J 492	2442	2	$13.25

Nokona—Ken Staples Professional Model—Boy's Size

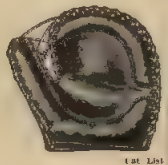
Made of genuine top grain cowhide Leather lined Bound edges Shaped pad Eyeletted and leather laced Adjustable leather laced wrist strap Fully oil treated

Stock No.	Mfr's No.	lb Each	Fact List EACH
2J 488	J504	1½	$5.00

One in a box

Softball Mitts

Reach



Full Right For Left Hand Players

Made especially for softball. Of genuine horsehide throughout Special raised pad on thumb, heel and outside edge. Rawhide laced edge with metal eyelets Leather lacing between thumb and palm Buckle and strap at wrist. Extremely light and flexible

Stock No.	Mfr's. No.	Fact. List EACH
2J 1333	270FR	$6.25

Genuine horsehide front and back with soft kid lining padded thumb, heel, and outside edge. Three quarters rawhide laced edge with metal eyelets. Adjustable rawhide laced wrist strap.

Stock No	Mfr's. No	Approx. lb Each	Fact. List EACH
2J 1332	237	1¼	$11.25

Basemen's

Softball mitt. An especially designed mitt with a circular raised pad on thumb and heel. Made of specially Flexo-Glue hide with professional model pattern back. Rail bound leather bound wrist with metal eyelets. Laced between thumb and palm

Stock No	Mfr's No	Approx lb Each	Fact List EACH
2J 1310	238	1¼	$5.95

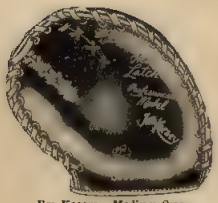
One in a box

Full Right—For Left-Hand Players

Stock No.	Mfr's. No.	Approx lb Each	Ost. List EACH
2J 1335	238FR	1¼	$5.95

One in a box.

Basemen's Mitt



Jim Reese's—Medium Size

New double breaking laced leather style. Bound edges. Eyeletted and leather laced throughout. Leather lined. Fully oil treated.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2J 476	J308	1½	$6.00

One in a box

Full Right—For Left Hand Players

Stock No.	Mfr's. No	lb Each	Fact. List EACH
2J 479	308FR	1½	$6.00

One in a box

George Cox—Professional Model

New latch style. Made of genuine cowhide. Leather lined. Bound edges. Adjustable laced wrist strap. Leather laced edges and crotch. Made of new style laced double breaking patent. Fully oil treated.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2J 477	J312	1	$7.00

One in a box

Full Right—For Left Hand Players

Stock No.	Mfr's No.	lb Each	Fact. List EACH
2J 480	J312FR	1⅛	$7.00

One in a box.

Fielder's Gloves

"Snuffy" Stirnweiss

Regular size fielder's glove Made of oiled cowhide. Palm lined Full welted closed heel. Solid leather trap, cotton laces Imitation flat leather binding.

Stock No.	Mfr's. No.	Approx. lb Each	Fact. List EACH
2J 421	282	1	$4.65

One in a box

"Snuffy" Stirnweiss

Made of full oiled glove leather Palm lined Regular fingers. Face and thumb welted Flat imitation leather binding, Closed heel Solid web crotch. cotton laced Finger tip laces.

Stock No.	Mfr's. No.	Approx. lb Ea.	Fact. List EACH
2J 411	2161	1	$4.85

One in a box.

Joe Dimaggio

Full size choice leather oiled glove with flat imitation binding Full lined and welted Solid web crotch. Closed heel Finger tips laced

Stock No.	Mfr's. No.	Approx. lb Each	Fact. List EACH
2J 422	296	1	$7.50

One in a box.

Reach—Sure Play

Made of full oiled glove leather Palm lined. Streamlined fingers. Face and thumb welted Flat imitation leather binding. Closed heel, Tunnel loop in crotch, cotton laced

Stock No.	Mfr's. No.	Approx. lb Ea.	Fact. List EACH
2J 410	2165	1	$3.65

Six in a box.

Nokona

Turk Lown

Regular four-finger model made of genuine cowhide Palm and fingers leather lined. Fully bound Laced leather web

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2J 400	J101	1	$2.60

One in a box.

Full Right—For Left Hand Players

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2J 403	J101FR	1	$2.60

One in a box.

Regular four-finger model made of genuine cowhide. Palm and fingers leather lined. Fully bound Laced leather web.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2J 401	J103	1½	$3.00

One in a box.

Full Right—For Left Hand Players

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2J 404	J103FR	1½	$3.00

One in a box

Frank Brown Boy's Size

Standard four-fingers model Glove cowhide throughout leatherlined palm and fingers Bound edges. Adjustable leather head web Leather laced heel Formed ball pocket

Stock No	Mfr's. No.	lb Each	Fact. List EACH
2J 402	J104	1⅓	$4.00

Full Right—For Left Hand Players

Stock No	Mfr's No.	lb Each	Fact. List EACH
2J 405	J104FR	1⅓	$4.00

Reach—Triple Play

Top grade cowhide, full oiled, with hand made pad. Three finger pockets. Closed web at crotch. Inside thumb loop. Rolled leather binding welted throughout. Leather laced.

Stock No.	Mfr's. No.	Approx lb Each	Cat. List EACH
2J 430	268	1⅛	$22.50

Stock No	Mfr's. No.	lb Each	Fact. List EACH
2J 425	229	1⅛	$18.60

Full Right—For Left-Handed Players

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2J 426	229FR	1	18.60

Hardball or Softball

New model made with three finger pockets, closed web at crotch and inside loop for thumb. Full oiled top grade cowhide with hand-made pad. Rolled leather binding, welted throughout Leather laced

Stock No.	Mfrs. No.	Approx. lb Each	Fact. List EACH
2J 447	290	1⅓	$11.95

Full size, full lined, with all Triple Play features, of greased glove leather.

Stock No	Mfr's. No.	lb Each	Fact. List EACH
2J 449	291	1¼	$9.95

Hardball or Softball

A full sized model with all Triple Play features, of good quality greased glove leather

Stock No.	Mfr's No	lb Each	Fact. List EACH
2J 448	290	1¼	$8.60

Made of all oiled glove leather Half lined welted, flat binding

Stock No.	Mfr's. No.	Approx. lb Each	Fact. List EACH
2J 428	285	1⅓	$5.95

One in a box

Junior model, correctly proportioned in reduced size for younger players Made of good grade greased glove leather

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
2J 443	285	1	$5.50

Reach

Junior size glove made of full oiled glove leather Half lined welted flat imitation binding Imitation plastic heel lace, Solid web crotch

Stock No.	Mfr's. No.	Approx. lb Ea.	Fact. List EACH
2J 453	2247	1	$5.75

Reach

Large size made of full lined oiled glove leather Full lined streamlined fingers. Full welted Flat leather binding Laced heel Solid web crotch, tied down Finger tip laces.

Stock No.	Mfr's. No.	Approx. lb Ea.	Fact. List EACH
2J 434	2231	1	$9.85

Reach

Large size, made of full oiled glove leather Full lined Streamlined fingers. Full welted. Rolled leather binding Laced heel Solid web crotch, tied down Finger tip laces

Stock No	Mfr's. No.	Approx. lb Ea.	Fact. List EACH
2J 435	2223	1	$12.35

All above, one in a box.

Basemen's Mitt

Fast Play

New model, tan leather full oiled Handformed, two connected tunnel loops at crotch. Adjustable small finger loop and wrist strap

Stock No.	Mfr's No.	Approx. lb Each	Cat. List EACH
2J 459	238	1	$ 5.95
2J 474	256	1	21 50

Same design and construction as No 256 Made of a very good quality greased glove leather

Stock No.	Mfr's No.	Approx. lb Each	Cat. List EACH
2J 463	255	1	$6.15

One in a box.

Full Right—For Left-Hand Players (rubber Model)

New design. One piece palm and back of quality leather. Three connected tunnel loops form a large ball pocket between thumb and fingers

Stock No.	Mfr's No.	Cat. List EACH
2J 451	255FR	$7 00

One in a box

Trapper Model Hardball or Softball

Made of finest, durable cowhide Grooved action, inner greased palm, cemented back, never rip crotches Multiple adjusting pocket laces in crotches Hand oil treated Adjustable wrist strap

Stock No.	Mfr's No.	Approx. lb Each	Fact. List EACH
2J 456	254T	1½	$13.25
2J 457	254TFR	1½	13.25

One in a box

Hardball or Softball

Trapper mitt that includes all the trapper model features

Stock No.	Mfr's No.	Approx. lb Each	Fact. List EACH
2J 452	252T	1¼	$11.25

One in a box

Junior Model

Popular priced trapper mitt in the junior model. For the budding first baseman.

Stock No.	Mfr's No.	Approx. lb Each	Fact. List EACH
2J 455	253T	1¼	$9.45

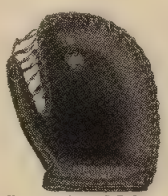
One in a box

Youth's Trapper

Boy's model of Trapper mitt Greased tan mitt leather Made on trapper pattern, correctly proportioned for boy's use.

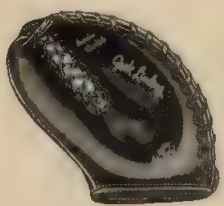
Stock No.	Mfr's No.	Approx. lb Each	Fact. List EACH
2J 461	236T	1	$4.45

One in a box



Stock No.	Mfr's No.	Approx. lb Each	Fact. List EACH
2J 471	239T	1	$ 8.60
2J 472	239TFR Full Right	1	8.60
2J 473	258T	1	17.95

One in a box.



Jack Lindsey Boy's Size

Made of genuine cowhide Bound edges Eyelet lettered and leather laced Leather lined palm. Adjustable laced wrist strap Fully oil treated

Stock No.	Mfr's No.	lb Each	Fact. List EACH
2J 476	J306	1¼	$4.50

One in a box

Full Right—For Left Hand Players

Stock No.	Mfr's No.	lb Each	Fact. List EACH
2J 478	J306FR	1¼	$4.50

One in a box

Footballs and Accessories

Franklin—Official—Semi-Pro

Official size and weight Cover of 115 oz football grain fabric. Butyl neoprene rubber bladder Plastic lace.

Stock No	Mfr's No	lb Each	Cat. List EACH
2J 826	JV88	1	$2 95

Twelve in a carton

Franklin—Regulation—Gridiron Champ

Regulation size Cover of 48 oz football grain fabric Butyl neoprene rubber bladder Plastic lace

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
2J 825	400	¾	$1 95

Twelve in a carton.

Boy's Helmet

Reach

Not recommended for school use. White fibre crown, ventilated. Red textron cross straps, blue trout, buck and ears of textron. White felt padding, with tan sheepskin sweat band in fore head. Four point white web suspension. Adjustable elastic chin strap.

Stock No.	Mfr's. No.	Boys Size	lb Each	Cat. List EACH
2J 810	63FH	Small	¾	$5 10
2J 811	63FH	Medium	½	5 10
2J 812	63FH	Large	⅝	5 10

Six in a carton

Helmet

Franklin

Helmet of heavy fibre board Lined with thick white wool felt. Six straps with suspension Genuine leather sweat band. Adjustable chin strap. Twelve in a carton. 3 small, 6 medium and 3 large.

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
2J 829	H46	1	$2 75

Individually boxed.

Nokona—One-Piece—Junior

Plastic style one piece junior helmet. Hammock style suspension. Elastic adjustable chin strap. Assorted colors

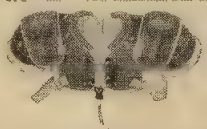
Stock No.	Mfr's No.	Size	Fact. List EACH
2J 832	JH7	Small	$5 00
2J 833	JH7	Medium	5 00
2J 834	JH7	Large	5 00

Shoulder Pads

Nokona—Junior

Made of vulcanized corrugated fiber cap, flat and arch. Quilted padding. Adjustable elastic shoulder straps. Adjustable lace, front and back.

Stock No	Mfr's No.	Fact. List EACH
2J 815	JP5	$4 00



Flat Style

Caps of red molded fibre with rubber twill covered padding. Red molded fibre epaulette. Red molded fibre body with rubber twill covered padding. Adjustable ¾ inch elastic body straps. White leather neck binding. Hinges, pebbled leather

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
2J 816	90SP	¾	$7 00

One in a carton.

Franklin

Shoulder pad of heavy fibre board. Corrugated caps. Fully padded with heavy felt. Suspension type construction. Web arm straps. Adjustable lace. Bright color

Stock No.	Mfr's No.	lb Each	Cat. List EACH
2J 830	P54	1¼	$2 40

Twenty-four in a carton

Junior Boy's Pad

Reach—Cantilever Style

Cap of red molded fibre with quilted cotton padding. Red molded fibre epaulette and body. Quilted cotton body padding. White non-elastic webbing body straps. Strap leather hinges.

Stock No	Mfr's No	lb Each	Fact. List EACH
2J 815	264	½	$2 95

One in a carton

Footballs

Reach

Durable imitation leather. Official size and weight. Individually boxed with inflating needle.

Stock No.	Mfr's No.	Approx. lb Each	Cat. List EACH
2J 805	292	1¼	$3.70

Sid Luckman Official—Reach

Official size, shape and weight. Selected top quality pebble grain cowhide. Triple ply, double-laced and hand-stitched for shape retention. Rubber valve bladder.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2J 801	427	1¼	$10.95

One in a box.

Sid Luckman Varsity—Reach

Official size, top grain cowhide. Double-lined with durable fabric. Rubber-valve bladder.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2J 800	444	1¼	$7.25

One in a box.

Reach

Regulation size and weight. White. Fabric covered with black bands around each end.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2J 802	292-WF	1	$3.85

One in a box.

Voit—Official—Collegiate Night Football

Rubber-covered, fabric lined. White cover with two black stripes. Has rawhide laces. Waterproof, scuff proof, all surface play. Official size and weight.

Stock No.	Mfr's No.	lb Each	Cat. List EACH
2J 825	LF20W	2	$6.95
2J 822	LF39W	2	7.45

Six in a carton.

Voit—Regulation Night Football

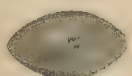
Quality regulation size all-rubber laminated football. White with black stripes.

Stock No.	Mfr's No.	lb Each	Cat. List EACH
2J 827	RF9W	2	$3.95

Voit—Official

Laminated all rubber football. Can be kept clean and looking new by merely wiping with a damp cloth, or if grimy, scrubbing with soap and water.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2J 819	RF9S	1	$3.95

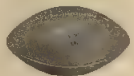


Voit—Collegiate

Quality rubber covered fabric lined football. Regulation weight size and shape. Waterproof.

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
2J 820	LF9	1¼	$5.95

One in a box.



Voit—Junior Size

Quality, rubber covered, Fabric lined football. Water proof.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2J 835	LF6	1	$5.50

Six in a carton.

Voit—All Conference—Seconds

Rubber covered fabric center construction. Official size and weight.

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
2J 818	F11	2	$2.95

Look at NOMA for Easter!

Look for this full-color, full-page advertisement which will appear in

Look magazine
March 13th Issue
reaching over
18,000,000
readers

Just in time for the Easter parade that comes to your toy department looking for surprises! And nothing could surprise—or delight—more than NOMA, the EFFANBEE electronic talking doll who laughs, sings, talks and prays in a real human voice! Order now! Stock up! Feature, display and cash in on the most widely promoted doll in the history of the industry!

EFFANBEE DURABLE DOLLS

EFFANBEE DOLL CO.
200 FIFTH AVENUE, N. Y. 10, N. Y.
maker of famous Dy-Dee Doll
a division of NOMA Electric Corp.
makers of world-famous NOMA lights

CLIP THIS COUPON—Place Your Order Today!

EFFANBEE DOLL CO., Inc
200 FIFTH AVE. • NEW YORK 10, N. Y

Date____

Please ship us via _____

____ doz. #2495 NOMA, the Effanbee Electronic Talking Doll @ $14.95 each

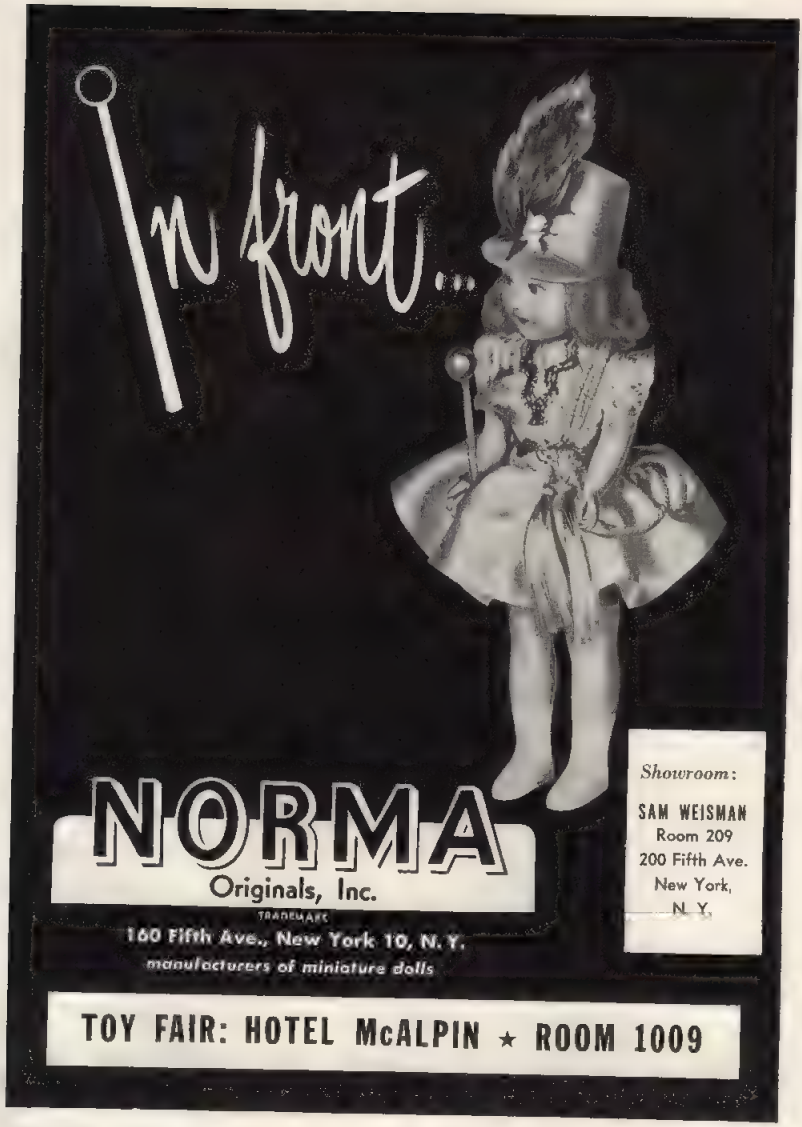
Store Name _____

Address _____

City _____ Zone ____ State _____

Buyers Signature _____ Dept. ____

☐ I am interested in your merchandising aids. Please send full information.


In front...
NORMA
Originals, Inc.
TRADEMARK
160 Fifth Ave., New York 10, N. Y.
manufacturers of miniature dolls
Showroom:
SAM WEISMAN
Room 209
200 Fifth Ave.
New York,
N. Y.
TOY FAIR: HOTEL McALPIN ★ ROOM 1009

"JUNIOR" PUNCHING BAG AND PLATFORM

- **Portable—can be put up or taken down in a jiffy at any time. Just loosen wing screws and remove.**
- **Adjustable—Up or down to desired height.**
- **For use indoors and out.**

No. 450 Includes 18" dia. striking platform 12" punching bag ready laced Heavy rubber bladder needle and hand pump Heavy duty all steel removable bracket

Can be mounted on doors frames posts wall and trees, Indoors and out. Hand pump included

One of the finest forms of exercise -trains eyes as well as muscles

Packed Ind. Display Cartons
Weight 60 lbs. per dozen

can be retailed at **$5.95**

Patent No. 2,192,430

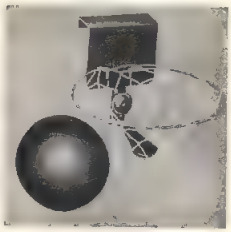
SCORE-BELL BASKET BALL GAME

- **Ball comes fully laced.**
- **Scoring device on back panel. Simply pull cord and indicator moves to next number**
- **Ball rings when ball goes through net. Trigger paddle automatically returns to position.**

No. 350 Complete set consists of 11" steel panel with score chart and indicator bell and trigger paddle, net and pebble grain 7" leatherette ball. Heavy inflating type bladder with needle. Instructions with each game Individually packed in attractive display boxes.

can be retailed at **$3.75**

"RING-A-BELL" BASKET BALL GAME



No. 250. Same as No 350 except has 8" high steel panel minus the scoring device. Ball comes fully laced

can be retailed at **$2.95**

SEE US AT THE SHOW
ROOM 547
HOTEL McALPIN

N. Y. Al Moritz, 1107 Broadway, Suite 400
West Coast—Glenn B. White & Assoc., 1355 Market St., San Francisco, Calif.; South—W. A. Yarborough 84 10th N.W., Atlanta, Ga
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LOGAN SPECIALTY MANUFACTURING CO.

1431 WEST HUBBARD ST.
CHICAGO 22, ILLINOIS

IT'S **ATOMIC!**
IT'S **NEWS!**

IT'S THE TALK OF **AMERICA'S BOYS AND GIRLS!**

- **SHOOTS POWERFUL PIERCING RAY**
- **DELIVERS DANGER-WARNING HIGH FREQUENCY BZ-Z**
- **SENDS MYSTIFYING BUCK ROGERS CODE**

25th Century SIGNAL LIGHT

BUCK ROGERS SONIC RAY

ALSO
SEE OTHER NORTON QUALITY TOYS INCLUDING:

- 7 POWERED TELESCOPE
- 3 POWERED BINOCULARS
- SUPER FOTO CANDID CAMERA

MANUFACTURED BY:
NORTON ENGINEERING & MFG. CO.
1432 WEST VAN BUREN ST., CHICAGO 7, ILL.

SEE IT AT THE
TOY FAIR
March 5th-16th
Rooms 518-519-520
HOTEL NEW YORKER

REPRESENTATIVES

- HARMOR & CO., INC. Room 962 200 FIFTH Avenue New York 10, N. Y.
- LAUNDER & ZATOUROFF Merchandise Mart Chicago, Illinois
- CLIFFORD GOTTLIEB 1031 S. Los Angeles St. Los Angeles, Calif.
- P. C. BROCKMAN & ASSOC. 1710 N. Decatur Road, N.E. Atlanta, Georgia

Nosco Toys

Cop Cycle

An authentic model of police motorcycle and side car with friction motor and siren. This vari-colored motorcycle runs straight or in circles. Individually packed in colorful window boxes.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
4H 3430	6357	5½	3¼	4	8	$1.19

Two dozen in a carton.

Cloud Hopper

5 cylinder transparent radial type motor shows movement of pistons, gears and crankshaft. New friction motor. Multicolored. Individually boxed

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Each	Cat. List EACH
4H 3417	6530	9¾	7½	3½	¾	$1 50

Twelve in a carton.

Four Shooter Cannon

Authentic fully enclosed firing mechanism. Elevating pistons for raising and lowering gun barrel. Four shells attached to rack. Multi-colored. Individually boxed

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Each	Cat. List EACH
4H 3418	6595	8	4½	3⅜	½	$6 75

Twenty-four in a carton.

Tomic Rocket

Print-O-Matic Co.

A spring wind-up rocket made of acetate with a new principle pistol maker and explosion. Shoots spirits. Red nose, white fuselage and red transparent tail, all shatter proof, non breakable.

Stock No.	Lgth. In.	lb Each	Fact. List EACH
4H 8170	15	1	$3.50

Twelve in a carton.

Poochy

Pull Toy

Multi-colored pull puppy with soft floppy ears and wagging tail. Legs move back and forth, head bobs up and down as poochy makes growling noise.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
4H 3422	6450	12½	4½	5	16	$2.49

One dozen in a carton.

Nosco Chief

The Chief consists of 10 sections of banked track and complete freight train, locomotive, locomotive tender, coal hopper, box car, oil tank car and caboose. Molded and engineered train scoots around 30 inch circle (8 feet) of banked track. The banked track permits trains to grip track at higher speeds. The Chief engine is equipped with sturdy wind-up motor with automatic brake and draws train over 25 feet. Red, yellow, blue and green cars. Complete train 20 inches long

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 3426	6400	15	$2.05

Individually boxed

Nosco Zippy Zephyr

Mechanical streamlined train with banked track. Includes 14 pieces, one streamlined engine, one baggage car, one pullman car, one observation car, 10 sections of banked track. Each car is a different color. Zephyr is equipped with wind-up motor with an automatic stop. Has 8 feet (30 inch circle) of banked track.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 3423	6384	9	$3 05

One dozen in a carton

Nosco Fast Freight

Runs without track on any surface. Over 16 inches long and consists of six cars, locomotive, locomotive tender, coal hopper, box car, oil tank car and caboose. Each car is a different color. Has a strong flat spring motor which propels it over 30 feet on any surface. Sturdy construction, many safety features and authentic detail

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 3425	6378	6½	$1 00

Two dozen in a carton.

POKEY JOE

Nosco's
DING DONG
FIRE
TRUCK

Another Nosco Feat

BREAKS THRU TO GREATER YEAR ROUND TOY SALES

A shipping carton contains 2 doz. and weighs 19 lbs. Standard terms are 2% 10 days F. O. B. Erie, Pa.

NOSCO PLASTICS Erie, Pa. U.S.A.

NEW YORK OFFICE—200 FIFTH AVENUE, NEW YORK CITY

NOSCO'S

Poochy the PET-AGREE PUP

Nosco's
dog show attraction
with
built-in action

Poochy, the most faithful puppy a child ever had, is a Pet-Agree pup with built-in action. He jiggles and joggles, wiggles and wags, snoops and snorts. Poochy can't bark yet, but he does make a growling noise. Children can't resist his "I-want-you-for-a-playmate" expression and parents approve his gentle manner. Poochy tags along after the little ones, with all four legs on wheels keeping in step, his pliable ears wiggling to and fro, his wagging tail tied with a big bow. Poochy is smoothly molded of colorful plastic and is constructed for rugged play. He is a champion show dog that will show you how fast and easy Nosco Toys sell. Order and display Poochy, the country's No. 1 pet—your No. 1 bet for toy profit.

The **DARLING** *of* **DOGLAND**

Catalog No. 6450
Size 18 3/4" long 4 1/2" wide 5" high. Multi colored "Poochy" comes in attractive package

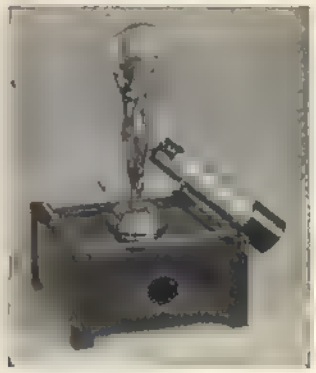
The
POOCHY PACKAGE
The outstanding, brilliant three-color Poochy package is the newest attraction at toy counters everywhere.

NOSCO'S
TOY FAIR DISPLAY
RMS. 1116-18 HOTEL McALPIN

Nosco **PLASTICS** ERIE, PA., U. S. A.

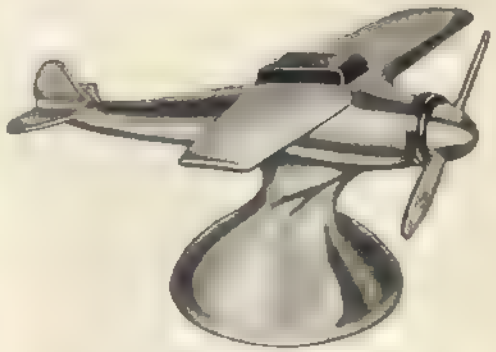
NEW YORK SHOWROOM 200 FIFTH AVENUE
Address all correspondence to Erie, Pa.

Novelty Table Lighters



Dunhill Silent Flame Table Lighter. "Aphrodite" figure in Gold finish with mahogany base. Lighter operates on entirely new and novel principle. No wheels. Uses no flints to replace. Filled with fluid ready for use. Height 4½". Each in box. Retail 15.00

No 83J807. Each. 1.75



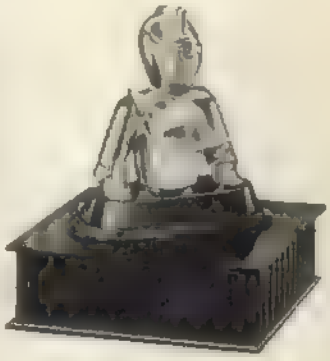
Airflame Aeroplane Lighter. All chrome finished streamline design with ornamental black trim on propeller and cockpit. Two the propeller and its unit. Dependable and foolproof performance. 3½ x 6 x 5 inches Retail 5.95

No. 83J806 Each 3.60

Marine Table Lighter. All chrome finish, semi-automatic action. Spin of wheel operates mechanism. Five inches tall. Individually boxed Retail 5.95

No 83J693.

Each 3.60



Baronet Knight in Armor Lighter and Cigarette Box. Assemblation of Knight in Armor Lighter with attractive smartly styled cigarette box in ebony black plastic. Ideally suited for home and office. Mechanical performance unsurpassed. 4 inches wide, 5 inches tall. In individual gift box Retail 6.95

No. 83J805.

Each 4.20

Knight Templar in Armor Table Lighter. 7 inches tall For desk, den, home or office. Finished in brilliant non-tarnishing chrome. Mounted on 3 inch square black plastic base Push the visor and up flares the light Individually boxed. Retail 8.95

No. 83J802. Each..... 5 40

RONSON Specialties

Lighter Fluids

"Old - Faithful" Lighter Fluid 4-ounce can Two dozen in carton (No less sold)

No. 86J274.

Per doz. 1.20

Ronsonol. A finer, longer lasting, more efficient lighter fuel Packed 3 dozen cans to a carton (No less sold)

No. 85J34.

Per doz. .. .1.76

Ronson Accessory Display Cabinet Attractive counter display of wood and cardboard illustrated with retail selling prices of each item

Assortment contains

6 dozen RONSONOL (25c each) Retail value 18.00,

6 dozen Five-Flinters (15c each) Retail value 10.80

2 dozen Plastikits (25c each). Retail value 6.00

FREE counter display.

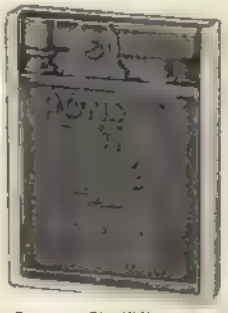
No. 85J36. Per Display. **20.46**

Ronson Redskin Flintall. Display card holds 24 envelopes; each containing 3 extra-length genuine RONSON REDSKIN FLINTS. Retail 10c per envelope

No. 85J31. Per card of 24 envelopes 1.41

Ronson "Five Flinter" is a small safe-deposit flint holder with five flints Packed 24 "Five Flinters" on card

No 85J32. Per card...2.12

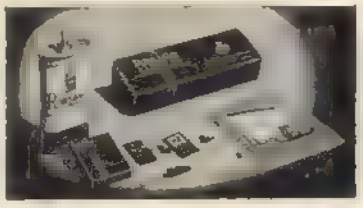


Ronson Plastikit. Contains 5 extra length 'REDSKIN' flints with inserter and brush In plastic container. Packed 2 dozen in display carton

No. 85J33.

Per dozen 1.76

RONSON UTILITY UNITS



Every owner of a Lighter should buy this useful and necessary outfit. It contains the accessories to keep a RONSON in first class working order for a long period of time

Each SERVICER contains:

RONSONOL Quality Lighter Fuel 1 4-ounce bottle

3 RONSON extra-length RONSON REDSKIN 'Flints'

RONSON Wick and Inserter

RONSON Spark Wheel Cleaning Brush

General Instruction Book

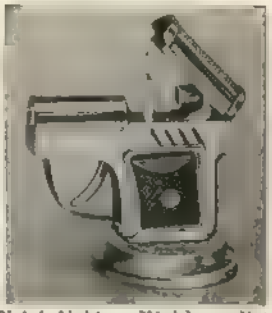
Retails at 50c per SERVICER

No. 85J35. Per dozen.....3.53

Novelty Lighters

Miniature Pistol Lighter. Highly polished chrome plated with imitation mother-of-pearl inset on handle. Overall dimensions 2 inches wide x 1¾ inches including base. Each in box.

No. 83J861. Per dozen..... **5.00**

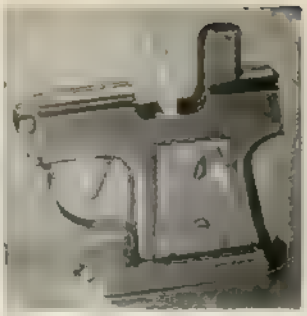


Pistol Lighter. Highly polished chrome plated with black trim on handle. Overall dimensions 2¼x2¼ inch diameter base. Individually boxed.

No. 83J832. Per dozen . . . **6.75**

Pistol Lighter. Highly polished chrome plated with black trim on handle. Overall dimensions 3¼ inches wide by 2⅜ inches high including base. Each in box.

No. 83J852. Per dozen..... **9.00**

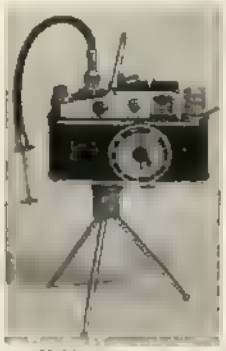


Pistol Lighter. Highly polished chrome plated with mother of pearl trim. Overall dimensions 3¼ inches wide by 2⅜ inches high including base. Each in box.

No. 83J851. Per dozen..... **12.00**

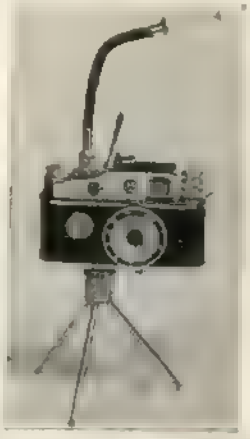
Miniature Pocket Lighter. Ideal for men and women. Small enough to be worn on key chain or charm bracelet. Silver finish. Overall dimensions 1 inch square, depth ¼ inch. Each in box.

No. 83J862. Per dozen **4.00**



Camera Lighter. Has plastic body, finished to simulate black crackle. Polish metal trim and tripod. Complete with plunger 2½ inches by 1¾ inches high. With tripod 4⅛ inches. Each in box.

No. 83J853. Per dozen **7.20**



Camera Type Lighter. Designed to look exactly like a miniature camera with compass on front. Metal body with black crackle finish and polished metal trim. Dimensions: Camera 2½x1¾ inches, height with tripod 4⅛ inches. Each in box.

No. 83J822. Per dozen..... **12.00**

Boot Lighter. Western style boot in silver finish. Overall dimensions 3½ inches wide by 3¼ inches high by 1 inch deep. Each in box.

No. 83J858. Per dozen..... **7.20**

Same as above in bronze finish.

No. 83J867. Per dozen.....**7.20**

Knight Table Lighter. Beautifully modeled. Heavy silver plated finish. Spin wheel lighting arrangement. Overall height 6¾ inches. Each in box.

No. 83J839. Per dozen..... **13.50**

Lighter and Tray Set. Bright polished silver finish. Attractive press button quick action flame. Overall dimensions lighter x ⅞ x 1⅝ inches. Tray dimensions: 4⅝ x 3⅝ inches. Set in box.

No 83J865 Per dozen ..**9.00**

Table Lighter. Classic design. Silver finish. Quick action, press button; flame is immediate. Overall dimensions height 2½ inches; width 4 inches; depth 1¾ inches. Each in box.

No. 83J836. Per dozen **9.00**

Lamp Lighter. Pulling chain operates mechanism. Chrome finished base with colored enamel shade. Overall dimensions 4 inches high, 2½ inches diameter. Each in box.

No. 83J839. Per dozen.. . . **16.50**

Table Lighter (illustrated at right). White bone china body with colorful floral design. Metal base and lighter. Highly polished chrome. Overall dimensions 2½ inches diameter, 3¼ inches high. Each in box.

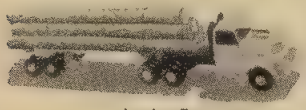
No. 83J843. Per dozen..... **15.00**

Piano Lighter (illustrated at left). Clever imitation of a baby grand piano with ivory plastic body, chrome metal trim. Legs and overall dimensions top 2¾ inches wide 2¼ inches high, 3½ inches deep. Each in box.

No. 83J860. Per dozen..... **21.00**

Model Toys

Timber Toter



American Toy

The timber toter, using the same heavy construction and design, is a replica of the full scale logging trucks that are used throughout the entire lumbering industry. Construction features air horn, steering (pat.), die cast aluminum cab, welded steel frame, rocker type spring action, spring action trailer hitch, dual wheels, tractor and trailer 18 Goodyear tires, adjustable trailer boom. Height 5 inches, width 8 inches, tractor length 20 inches. Tractor and trailer adjustable to 38 inches overall length. Supports up to 150 pounds. Baked enamel finish. Loaded with 6 logs 26 inches long 1¾ inches diameter.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 4310	LJ2	19	$21 45

One in a carton.

Timber Toter Jr.

American Toy

Heavy duty logging truck. Cab made of die cast aluminum, welded steel frame, rocker type spring action. 10 wheel truck with Goodyear tires. Loaded with 9 logs bound with two log chains.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Ea.	Fact. List EACH
4H 4309	LJ4	20	8	8	13	$15 00

One in a carton.

Dump Truck

American Toy

Die cast aluminum cab, welded steel frame, rocker type spring action. Lever handle controlled, dumping feature. Duplicate of heavy trucks used in road building. Dual wheels with heavy duty truck tires. Heavy metal box enameled finish.

Stock No.	Lgth. In.	lb Each	Fact. List EACH
4H 4311	20	11	$18 95

One in a carton.

Ny-Lint—Road Grader

A diesel heavy duty construction will do real scraping and grading with this working scale model. Front wheels steerable. All axles individually pivoted to follow irregularities of the grade. Scrapper blade has positive three way adjustment. Can be raised or lowered, tilted anyway, and swung either right or left.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	Tires	lb Each	Cat. List EACH
4H 4201	1400	19¼	7¼	6½	3½	8	$8 10

One in a carton, six in a shipping carton.

Ny-Lint Earth Mover

Made of heavy gauge steel. Scale model of the real tournarocker. Has exact reproduction of distinctive action of original, including twist on log rear dump hopper and two way pivot on connecting pin. Strong flexible toy for hauling and dumping.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Each	Cat. List EACH
4H 4200	1800	18	5⅓	6½	5	$7 00

One in a carton, six in a shipping carton.

Ny-Lint—Tournahopper

A scale model of the real, tournahopper designed and manufactured by R. G. LeTourneau, Inc. This model is approved and authorized by LeTourneau. Clamshell type dump gates side aside across full width of bottom opening, so big hopper empties clean. Spring loaded lever latch mechanism operates dump gates firmly and efficiently. Front power unit is double pivoted to hopper. So Ny-Lint working model can make and turn across rough ground just like the real big earth movers. Made of heavy gauge steel for strength and durability. Electrostatically sprayed baked enamel finish.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Ea.	Cat. List EACH
4H 4206	1500	22½	6½	6½	8	$8 25

Six in a carton.

Ny-Lint—Hough Payloader

Scale model of the famous Hough Payloader approved and authorized by the manufacturer. The loader bucket is raised to any height by a crank that operates a [illegible] load. Payloader digs load and carry it to the [illegible]. Exclusive swivel axle provides snow blade push or pull. Ny-Lint working model can handle anything that will fit the bucket and lift to [illegible]. Just like the real machine. Front wheels are steerable. Heavy gauge steel construction. Electrostatically sprayed baked enamel finish.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Ea.	Fact. List EACH
4H 4207	1600	18	7	7½	8½	$8 25

Six in a carton.

Ny-Lint—Elgin Street Cleaner

All metal construction. Full realistic action. Single rear wheel is steerable. Both main and side brooms rotate all time toy is running. Has clock spring motor for extra power. Has three rubber wheels, start-stop catch lever, permanently attached key. Bright lithographing with full detail. Scale model of Elgin Sweeper.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	Cat. List EACH
4H 4202	1100	8½	6	5½	$3 55

One in a decorated box, 12 in a shipping carton.

Model Toys

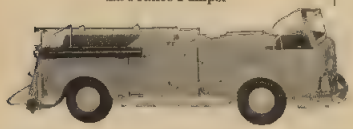
Aerial Ladder Fire Truck

Towering 42 inch aluminum ladder elevated and extended by thumbscrews. Diamond truss aluminum non-skid ladder base rotates a full 360 degrees. Dual rear wheels, steerable front wheels with 3 point suspension. Wheels are exact replicas of famous Budd design. Real lucite windshield, two aluminum seating ladders, six famous make rubber tires, wind-up siren, bell and mock searchlight all standard equipment. Rugged 22 gauge steel and aluminum construction with stainless steel trim. Overall length 33 inches.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 4814	2008	11	$16.75

One in a box

La France Pumper



Replica of the real pumper. Standard equipment includes auxiliary ladder, fire extinguisher, bell, rubber hose on reel and hard suction hose. Hose attaches to pump operated pressure water tank, actually shoots stream of water. Fire engine red enamel finish.

Stock No.	Mfr's. No.	Fact. List EACH
4H 4323	2010	$16.75

One in a carton

Aeromite Accessory Kit

Kit contains 8 ounce can of fuel, pouring spout, fueling tube, connector clip, connector wire. Box size 4x6x1½ inches.

Stock No.	lb Each	Fact. List EACH
4H 2204	¾	$1.49

Twelve in a carton

Ready-To-Fly Model Plane

Aeromite—Gas Propelled with Motor

Made of tough plastic. Features the baby Spitfire motor and flight control unit. Has 17 inch wingspread and 13 inch fuselage.

Stock No.	lb Each	Fact. List EACH
4H 2203	1¼	$9.95

Twelve in a carton

Controlable Flight

Aerobat—Hand Powered

The Aerobat is assembled and ready to go. This finely engineered craft is designed for hand-to-e flight without engine. Aero dynamic design perfectly balanced permits effortless gliding operation. Controlled from the ground with Jim Walker U Control which is completely installed and provides the same sensitive reaction that is found in full sized aircraft. Made of high impact plastic, resistant and durable.

Stock No.	lb Each	Fact. List EACH
4H 2205	¾	$3.95

...ew! Nothing Like Them Ever Before!

Once upon a Time Toys

full-color, storybook characters, complete with settings, furniture and accessories

single box complete 49¢ retail

Figures and accessories molded of durable plastic

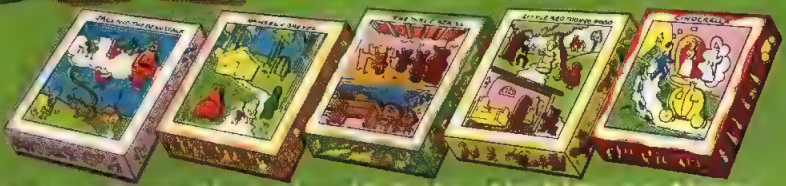
for PLAY and RECREATION

for WALL DECORATION

Set of 4, assorted, in sturdy mailing box 1.98 retail

Set of 6, assorted, in sturdy mailing box 2.98 retail

...OW
...VAILABLE IN
STORIES
...more to
...ollow)
...HE 3 LITTLE PIGS
...ers listed below



Another sales-building creation by

menee industries, inc. 200 Fifth Avenue, New York 10, N. Y.

Gift Glassware

Orchard Crystal

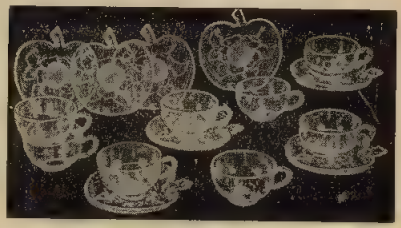
Something new has been added. An apple ... design pressed into the bottom of your favorite apple shape crystal glassware. Adds new sparkle and brilliance. Beaded cup handles add a new touch also.

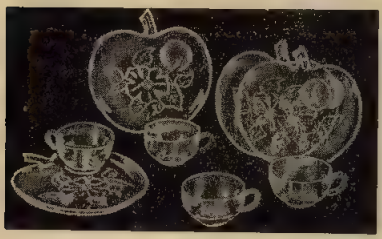
16 Piece Cup and Saucer Set

You can always use extra cups and saucers ... ally when they're this pretty. Set includes 8 cups ... saucers.

Stock No.	Mfr's. No.	Pcs. In Set	lb Set	Fact. List SET
4C 8305	1329	16	7	$5[illegible]

One set in a carton



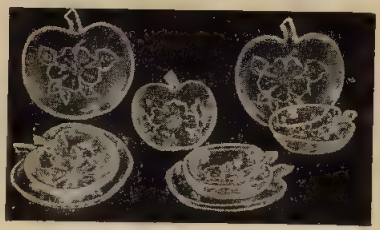


8 Piece Tea and Toast Set

Just the set for snack time. Set includes 4 each of grooved plates and cups

Stock No.	Mfr's. No.	Pcs. In Set	lb Set	Fact. List SET
4C 8306	1330	8	6	$3.50

One set in a carton.

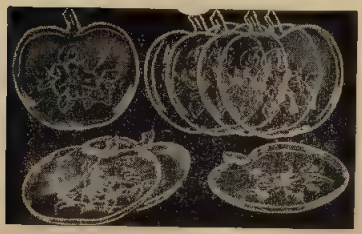


8 Piece Dessert and Plate Set

Happy twosome for ice cream and cake, for fruit and sandwiches. Set includes 4 each dessert bowls and dessert plates

Stock No.	Mfr's. No.	Pcs. In Set	lb Set	Fact. List SET
4C 8307	1328	8	4	$3.50

One set in a carton



8 Piece Salad Plate Set

A set of these and a set of cups and saucers makes a delightful luncheon set. A service for 8. Set consists of 8 salad plates.

Stock No.	Mfr's. No.	Pcs. In Set	lb Set	Fact. List SET
4C 8308	233	8	8	$1.50

One set in a carton

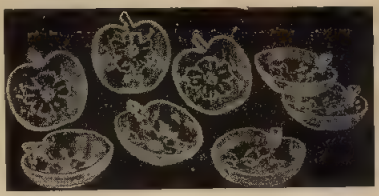
Gift Glassware

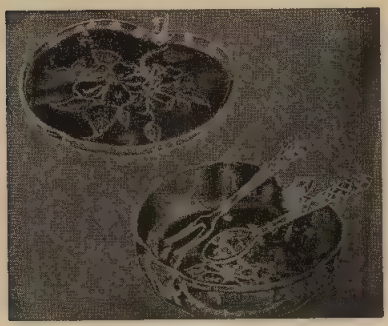
8 Piece Dessert Set

Ideal set to be used for ice cream puddings and desserts. Set consists of 8 dessert dishes.

Stock No.	Mfr's. No.	Pcs. in Set	lb Set	Pact SET	List SET
4C 8809	288	8	8	S	$1.40

One set in a carton





Cake Plate

A large 11 inch cake plate to match the 8 piece plate set.

Stock No.	Mfr's. No.	lb Set	Pact SET	List SET
4C 8812	237	3½	S	$1.50

One set in a carton

3 Piece Salad Set

A wonderful salad set large 10 inch crystal bowl with crystal plastic fork and spoon.

Stock No.	Mfr's. No.	Pcs. in Set	lb Set	Pact SET	List SET
4C 8811	284	3	4	S	$1.50

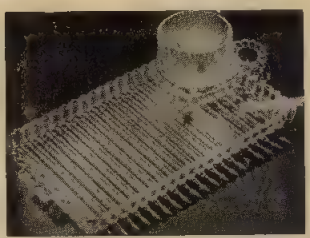
One in a carton

8 Piece Party Set

Ideal for Luncheons, tea and Sunday night supper. They save you time as there are no extra saucers or ash trays to wash and dry. Set consists of 4 each 10x10 inch clear sparkling crystal trays with fluted edges, with built in ash trays and 4 cups that do not jiggle. Cups have a beautiful beaded handle.

Stock No.	Mfr's. No.	Pcs. in Set	lb Set	Pact SET	List SET
4C 8817	1305	8	9	S	$1.75

One set in a carton



12 Piece Teacup Set (Cups Only)

Dainty clear glass cups with beaded handles. Ideal for punch [illegible] or to replace broken cups.

Stock No.	Mfr's. No.	Pcs. in Set	lb Set	Pact SET	List SET
4C 8314	912	12	7½	S	$1.50

"Ottawa"
HYDRAULIC BUCKET LOADER

for International Models "A", Super "A", and "C"

Push-Pull for Power Plus Bucket Loads

Small, Ruggedly Built and Powerful

Clearance, 10 ft. from ground to bottom of bucket before dumping. Clears over 8 ft. 4 in. after dumping.

Bucket width, 42 in. Capacity, 7½ cu. ft. Struck. 8½ cu. ft. heaped. Has a reach of 20 in. forward of grill at maximum height dumped. Will retract to carry semi-liquids.

Raises full load to maximum height in 7 seconds. Returns to load position on ground in 4 seconds. Maximum operating pressure, 850 P.S.I. Normal 600 P.S.I. with own hydraulic system, front or rear mounted as desired. Lifting capacity, 800 to 1,000 lbs. Safety valve.

Angledozer Attachment quickly interchanges with loader bucket.

Loader is quickly mounted or dismounted. Saves time and money.

Has adjustable bucket dig. Replaceable cutting edge on bucket. Fork teeth available extra. Zerk fittings throughout. Clear vision at all times a safety feature that speeds up every job.

ATTACHMENTS

Angledozer Blade Assembly. Has 7-ft. blade with replaceable cutting edge. Angles 40 degrees right or left with seven in-between positions, including a straight-dozing position.

Special snow buckets up to ¾ yard. Radiator Grille Guard (optional).

NOTE

The Ottawa "A", Super "A" and "C" Loader can be supplied with gravity dump bucket at a substantial saving in cost

60-2-51

LODOVER

1-YD. COMBINATION OVERHEAD AND FRONT-END SHOVEL FOR INTERNATIONAL T-9 & TD-9 TRACTORS

No-Turn Overhead Loading steps up production 50%.

No-Turn Overhead Loading reduces tractor wear.

Top-Notch Performance as front-end loader as well.

All-Hydraulic Operation speeds production.

Advanced Design means extra digging power.

Attachments for Many Jobs: Dozer, angle dozer, winch, boom, fork, V-type snow plow.

General Dimensions

Overall length	164"
Overall height (bucket down)	94"
Overall width	76½"
Overhead operating height	149"
Front dumping clearance (maximum)	10'
Rear dumping clearance (maximum)	9'
Digging depth below ground	10"
Ground clearance	11½"
Overhead cycle (including dump)	20 secs

STANDARD BUCKET

Capacity (cu. yd.)	1
Width overall	76½"
Weight, lbs.	800

OPTIONAL BUCKETS

Narrow bucket	60" wide ¾ yd
Light material bucket	80" wide 1⅛ yd.
Snow bucket	86" wide 2 yds
Rocket bucket	76" wide 1 yd.
Track cleaning bucket	

HYDRAULIC SYSTEM

Pump and valves	front mounted
Cylinders	all double acting
Oil reservoir capacity	32 gallons
Controls	cable type

SPECIAL STANDARD FEATURES

Combination crankcase guard and oil reservoir, heavy-duty breakaway front P.T.O. coupling, heavy-duty radiator guard, heavy-duty hood sheet and overhead canopy, operator screen guards.

OPTIONAL EQUIPMENT

Rear counterweight	500 lbs.
Front counterweights	350 lbs.
Front and rear windshields	
Side enclosures (Plexiglas)	
Canvas enclosures	

OPTIONAL ATTACHMENTS

Bucket teeth std	each 12 lbs.
Rock teeth—extra long	each 40 lbs.
Bulldozer blade	40" high, 86" wide
Lift forks	40" long 3 ton capacity
Angle blade	26" high x 9'10" wide
Rear-mounted winch	
Rear-mounted boom	
Snow plow—V type	

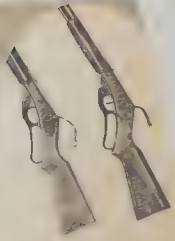
727-1-51

ACETATE'S A
FAVORITE WITH

INFANTS

ACETATE'S THE IDEAL
PLASTIC FOR

IDEAL*



ACETATE SCORES
A BULL'S-EYE FOR

DAISY*

in the new Red Ryder air rifle. Fore-arm and stock are both molded with acetate in a rich lustrous brown. Unusual feature is the molded figure of Red Ryder, together with his signature, which appears on the gun stock. Daisy tested many plastics, finally selected acetate because of its top performance at low cost

*Daisy Manufacturing Company
Plymouth, Michigan

ACETATE'S THE IDEAL
MATERIAL FOR

PRODUCT MINIATURE

Product Miniature Company, Inc., Milwaukee, Wisconsin

ALL KNOW

"THE FINEST PLASTICS TOYS ARE

ACETATE"

"THE FINEST PLASTICS TOY
ARE ACETATE"

PLANNING new toys or improvements in your present line? Then chances are there's a place for plastics and versatile cellulose acetate in your new product picture. Many manufacturers have found acetate a ready means of upgrading their products which in turn has brought substantial increases in sales volume. Better still, some toys can be designed to be molded with acetate at reduced production and selling costs.

Hercules offers to the toy industry the same services it makes available to other users of [illegible] plastics. These include assistance with design and product development, the facilities of our laboratory and help on technical problems. Be sparing with molders and manufacturing problems. After your product reaches the market you can also receive help through well planned promotion, publicity, and advertising. Write today to learn more about why "The Finest Plastics Toys Are Acetate."

CAPTAIN
MERRILL SHINNICK

Chesapeake Pilot and
Master Mariner

208 Dunkirk Road
Rogers Forge
Baltimore 12, Md.

I have spent most of my life on Chesapeake Bay from Cape Henry to the Delaware Canal. My professional experience and living has been spent piloting all types of craft from large ocean-going vessels to small boats. My own boat, the 'Steromer II', is an Owens 36—selected for livability, seaworthiness and value. 'Steromer II' combines all the qualities I want in a boat for day trips or extended cruises on the Chesapeake or out on the open sea. As a pilot I know the real value of a reliable engine power plant at all times. The Owens Flagship engine is economical at cruising speeds and delivers the added power whenever desired.

"As a native of the Chesapeake I watched the Owens Yacht Company grow year by year in size and reputation. The Owens Flagships are ideal for cruising on the Chesapeake where the short, steep chop in heavy weather places a real emphasis on seaworthiness.

"Everywhere I go my Owens cruiser is admired for its beauty, comfortable quarters and complete equipment.

"With a lifetime on the water, I want a cruiser that includes all the comforts of home and is still a seaman's boat. My Owens Flagship completely satisfies all these requirements with a bonus in low operating and maintenance bills."

Gracious Living Afloat

● Knowing yachtsmen recognize that ruggedness of construction, seaworthiness, performance, and value are the basic essentials in the boat of their choice. And they find it in Owens Flagships. But Owens offers, in addition to these essentials, a graciousness and luxury and a comfort of living which can not be matched by others of her size. The 26' and 33' Owens Flagships pack extra roominess, extra conveniences, extra livability into their length and beam. And so, both the yachtsman and his wife find in Owens Flagships a perfect combination of livability, seaworthiness, and value. Before you invest—get the details!

SEE OWENS FLAGSHIPS ON DISPLAY AT YOUR OWENS DEALER
FROM $3880. CAN BE FINANCED WITH SMALL DOWN PAYMENT

YOU CAN'T BEAT OWENS FOR

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LIVABILITY SEAWORTHINESS VALUE

OWENS YACHT COMPANY, INC.
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Please send me your latest catalog describing the Owens Flagship Line...

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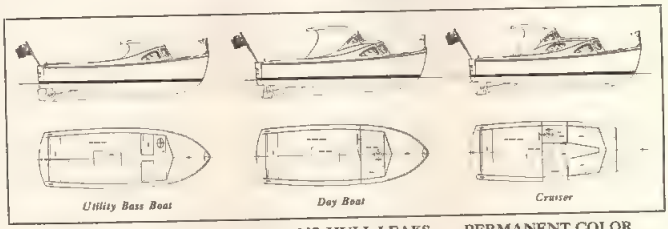
PALMER SCOTT 22

A NEW FIBERGLAS-REINFORCED PLASTIC BOAT

DESIGNED BY BEN DOBSON



Utility Bass Boat *Day Boat* *Cruiser*

NO ROT - WORM PROOF - NO HULL LEAKS - PERMANENT COLOR

All the advantages of impregnated fiberglas construction plus the improved MARCO method of seamless molding. The Palmer Scott 22 gives you economy and safety, good sea-riding and cruising comfort. 22' overall—7' 6" beam—2' 3" draft. Toilet in Day Boat and Cruiser, 2 berths in Cruiser.

OTHER BOATS FROM $34.50 - SEND FOR FOLDER

PALMER SCOTT and COMPANY, Inc. Dept. M-Foot of Logan St., New Bedford, Mass.

corrosion would immediately start at the scratch. If a sprayed zinc coating were damaged the same way, corrosion would not start at the scratch until the zinc was gone, not only where the scratch was, but for a considerable distance around it.

Another point of interest about sprayed zinc. Paint can be applied directly over it without previous treatment or special cleaning. Sprayed zinc has a texture and surface pores which will hold paint very well. In fact, there are many instances reported where paint has lasted much longer over sprayed zinc or aluminum than it does on steel. Galvanized, of course, has to be specially cleaned and treated before it can be painted, where sprayed metals do not.

In view of the above facts, metallized zinc, or aluminum, certainly seems to be a better answer for the boat owner's corrosion problem. In the long run, it is also a much less expensive answer, because annual maintenance, docking charges, and so on, are cut down considerably. It's worth the slight additional initial cost for the work.

Proper Technique

It has already been pointed out that preparation of the surface is of paramount importance. There are other things about technique of metal spraying that are important. The best way to bring out these points is to try to set forth the very best procedure for doing a boat hull, or similar work.

The following description of the work done on a boat recently at Philadelphia will serve as the best example of the procedure:

1. The hull was very carefully sandblasted using a good grade of hard (silica or flint) clean angular washed sand between 16 and 20 mesh size, and a pressure blast machine, using 100 pounds per square inch pressure. Work was continued until the surface had a uniform dull gray appearance, with no remaining rust spots, dark areas or bright spots.

2. About .0015 inch of steel was sprayed over the blasted surface. This so-called "steel flash undercoat" is highly recommended, because it enables the zinc to adhere just about twice as tightly to the work. It also prevents blistering of the zinc coating.

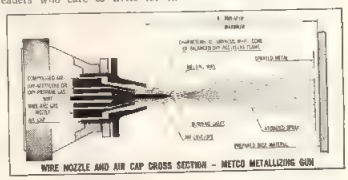
3. Next .018 inch of zinc was sprayed over the entire surface. In doing this work, the gun was first moved across the work just fast enough to cover the steel, and was moved back and forth horizontally. When the initial coverage was completed, a second layer was sprayed on, passing the gun up and down vertically over the work area. Alternating passes at right angles to each other prevent thin spots and distribute the zinc much more uniformly over the surface. This procedure was continued until the work was done.

4. The surface was next checked with an electric thickness gauge. This gauge measures the thickness of non-magnetic materials on magnetic bases, and hence is excellent for zinc or aluminum.

5. Thin spots were touched up with additional sprayed zinc.

Here then, are the fundamentals of good metallizing technique. Knowing them, it is much easier for a boat owner to insist that he obtain the best kind of coating for his boat.

It should be noted that there are volumes of material which could be written on this interesting subject. However, it is hoped that this condensation will have given the high spots and will serve to indicate possibilities for the reduction of one of the boat owner's major problems. The author will be most happy to answer specific questions or supply additional information to any of the readers who care to write for it.



WIRE NOZZLE AND AIR CAP CROSS SECTION - METCO METALLIZING GUN

HARRIS OPENS IN BROOKLYN

R. & L. Harris & Son, 2163 Coney Island Avenue, Brooklyn, recently commenced operations as marine distributors for Chris Craft outboard motors and inboard engines, Federal Marine Paints, Mastercraft Trailers, Inland Lakes Boat Works, builders of outboard runabouts and racing craft, and one-piece Flycraft Molded Hulls of the Industrial Shipping Company, Ltd. This organization has approximately 150 retail dealers throughout New York State and the New York metropolitan area.

TOBER

Since 1912—the leading source of top quality

- **BASEBALLS**
- **SOFTBALLS**
- **PLAYGROUND BALLS**

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Tober Baseball Mfg. Co., Inc.

MANCHESTER, CONNECTICUT

DAYTON
COMBINATION FISHING FLOATS

For Both CASTING and STILL FISHING!

NO THREADING — NO WEDGING
NO SLIPPING — NO LEAKING

Dayton Floats SNAP on and off line in a jiffy. Body is of high quality plastic; spring and clip made of rustproof spring steel. Quality made; popularly priced! SIX popular sizes in standard and LUMI-GLOW models. DEALERS and JOBBERS: Order your requirements NOW!

DAYTON BAIT COMPANY

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Sell your Sportsmen Customers the Amazing New

SLING-O-MATIC

Retail Price **$1.95** complete, including starting load.

The only AUTOMATIC hunting slingshot!

Accurate — powerful. Hits pests, small game, target with machine gun speed.
No reaching for ammunition. BBs drop from handle into Pouch!

SPECIAL OFFER!

Sample Sling-O-Matic $1.35 postpaid. Sample Doz. at quantity discount, $14.04 postpaid. Nationally advertised * Money Back Guarantee * Order Today.

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STOCK **Pequea** (PECK-WAY)
SNELLED **HOOKS**
The World's Finest and Strongest

BUY YOUR HOOKS FROM THE LARGEST STOCK IN THE WORLD

Pequea precision snells the famous Mustads with DuPont nylon leader material by a patented machine process—with the result that every Pequea snelled hook is uniformly stronger and absolutely dependable.

GET THE LOCALIZED ASSORTMENT

A complete choice of fresh and saltwater hooks in every wanted bend and point with snells 6 to 36 inches long.

PEQUEA *Quilby* MINNOWS

Favored by leading anglers for all game fish. More than sixty sizes for every type of fishing—Fly, Plug, Spinning, Casting or Trolling. For fresh and saltwater . Get a Pequea Localized Assortment

JIGS — Available either dressed with feathers (white) or Nylon bucktail (white and red), Nickeled head with ruby red eyes. White skirt. Unmounted or mounted with stainless steel wire leader, brass barrel swivel and O'Shaughnessy hook of appropriate size. Following weights: ½, ¾, 1, 1½, 2, 2½, 3, 3½, 4 oz.

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BULLHEAD — Fluorescent yellowish-green head (also available in yellow or pearl) glows when light rays strike it. Ruby cut-gloss eyes. White hair bucktail. Green skirt (also available in red, blue or white). O'Shaughnessy hooks of appropriate size. ⅜ oz., 1 oz., 2 oz.

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A complete line of leaders for fresh and saltwater, Spinners, Combinations, Imitation Pork Rind, Perfection Ready Rigs, the famous Pequea Monofilament Spinning Line, etc.

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STRASBURG, PA.

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CAN'T MISS

Metal bait holder — Four way trigger. Releases right, left, up or down. Easy slot set action. "HOME GUARD" same as "Can't Miss" but with wooden bait holder.

BETTER

Self-setting trap. To set—simply press jaw into automatic latch. Only one motion needed. Four way trigger action — releases right, left, up or down.

Alsteel Mouse Trap

Steel mouse-trap easily set by depressing rear of trap with either hand. Mouse is sanitarily ejected in same manner.

GEM TICKET PUNCH

Popular low priced ticket punch. Made of pressed steel with knurled handles. Available with five assorted and three round dies in addition to receptacle for clippings.

ACORN SCRAPER

Razor blade type scraper and cutter, adjustable to five positions. Each scraper furnished with blade—ready for use. Receptacle for extra blades.

McGILL METAL PRODUCTS CO.

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PERFECTION MAIL BOX

An Ornament On Any Home

This beautiful Thick Glass Mail Box *sells on sight.* 100% visible—smallest card can be seen in it. Placed visible from vestibule or front window prevents going out in rain or snow to see if there is mail. Has bonderized rust-proof metal cover finished in Forest Green baked enamel. Storm-proof. Bracket easily installed. Size: 9 in. deep—holds the new 9 in. standard size envelopes. Newspapers and magazines are inserted in back. Packed 6 boxes in carton. Send for circular and trade prices.

PERFECTION STORE DEVICE CO.

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Years of experience and 3 Factories at your service mean dependability and deliveries.

Over 5 complete lines of Salad Bowls—Different Types, Finishes and Price levels. A Quality and Price for every class of trade. Parrish "Supreme" Finish Bowls are absolutely tops for quality and beauty. No other finish like or equal to our secret, exclusive, permanent "Supreme" Finish.

Illustrated descriptive catalog folder, and price list gives complete information. Send for yours now.

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Rolling Pins, Forks & Spoons, Potato Mashers, Ladles and other Woodenware Specialties.

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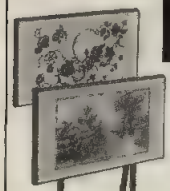
LARGEST MANUFACTURERS OF FINE WOOD BOWLS



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Seven new colorful top designs! Quality-built, yet priced for fast, volume sales.

WRITE FOR FULL COLOR "TOPPER" CATALOG HA

BRIDGE TABLE & NOVELTIES, Inc.

LOWELL, MASS.

". . . when plenty of birds are moving high and fast over your bland . . . you want *power* to bring 'em down. I tell the hunters I guide to get Peters 'High Velocity' shells"

says **Arthur K. Spicer**
veteran Chesapeake Bay duck-shooting guide

FOR POWER RECOMMEND

PETERS
"HIGH VELOCITY"

There's no more powerful ammunition in the world than Peters "High Velocity." Guides, hunters and sportsmen will tell you that "High Velocity" reaches out and nails 'em.

Recommend Peters "High Velocity" to your customers. It's the ammunition with the *power* they're looking for.

Stock the Peters power-packed line.

Power-packed Peters "High Velocity" shotgun shells bring down high, fast-flying game. "Rustless" non-corrosive priming • split-second ignition • "Water-Tite" bodies • progressive-burning smokeless powder • uniform shot size and shot count

Peters "High Velocity" big game cartridges pack smashing power for hard-to-stop game. Uniform bullet expansion, minimum disintegration on impact, *maximum* killing energy. "Rustless" non-corrosive priming • split-second ignition

Hard-hitting Peters "High Velocity" 22 s are *tops* for small game and pests • Micro-Perfect" bullets • split-second ignition • newest smokeless powder • special lubrication to protect rifling • "flat" trajectory • "Rustless" non-corrosive priming

PETERS packs the sales power

DU PONT

PETERS CARTRIDGE DIVISION, BRIDGEPORT 2, CONN.

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Popular Refreshment Sets

STUNNING LIQUOR AND COCKTAIL SETS

9-Pc. Wine Set. Six 3½ oz. heavy-bottom wine glasses in paste, shades. **-qt. clear glass decanter with** liquor type stopper. Glasses and decanter have matching **Gold** stripe and rim trimming. **Chrome finish metal tray** 1'x16½". Packed 1 set in carton. Ship. wt. 6 lbs.

540A79.....PER SET **$3.48**

8-Pc. Cocktail Shaker Set. Six 3½ oz. clear tapered glasses with etched leaf and floral design glass cocktail shaker to match. Shaker has Chrome cover and strainer. **Capacity 1½ pints.** Metal tray in chrome finish. **Tray size: 11x16½".** 1 set in ctn. Ship. wt 8 lbs

540A80. ..PER SET **$3.95**

7-PIECE COCKTAIL SETS

This sparkling cocktail set consists of 1½ pint glass shaker and six 3½ oz. glasses. Chrome-Plated metal cover on shaker with strainer in spout. Clear glass is decorated with alternating **wide** and **fine Gold stripes.** Packed 1 set in box. Ship. wt. 5 lbs.

540A96.....PER SET **$3.75**

As above With alternating **Maroon** and **Gold stripes.** Packed 1 set in box. Ship. wt. 5 lbs.

540A67.....PER SET **$3.75**

Similar to above With 1-qt. capacity glass shaker and six 3½ oz. glasses. Shaker has Chrome-Plated metal cover with strainer. Glassware is decorated with **wide Gold stripes.** Packed 1 set in box. Ship wt. 5 lbs.

540A65.....PER SET **$3.95**

TWO-BOTTLE TANTALUS SET

Smartly modern aluminum holder with rails on both sides. Tall, ornamental bottles with square stoppers. Capacity 20 oz. **Bottle size:** 3x3x8½". Each set carefully boxed. Ship. wt. 6 lbs.

540A69.....PER SET **$2.75**

SQUAT-BOTTLE TANTALUS SET

Bright aluminum holder with rail on both sides. (Holder is exactly as the one shown in illustration above.) No padlock. Squat, square style bottles with round-top stoppers. **Bottle size:** 3½x3½x6½". Each set boxed. Ship. wt. 7 lbs.

540A66.....PER SET **$3.48**

PINK ELEPHANT COCKTAIL SET

Attractive and gay—a wonderful gift item. Three-pint glass shaker with Chrome cover. Six cocktail glasses 3½ oz. capacity. Sparkling glassware decorated with Pink elephants and stars. **Set includes embossed aluminum tray 8½x15¾" with tubular handles.** Tray and glassware packed in separate cartons. Ship. wt. complete set 7 lbs.

540A125—Per dozen sets $33.60.....PER SET **$2.98**

ATTRACTIVE TANTALUS SET

Two large glass decanters with ball stoppers and colorful decal decorations. Practical hardwood holder with **lock and key.** A gift item always in demand, always appreciated whether for host or hostess. Each decanter is inscribed on neck of bottle for convenient selection. **Decanter size: 3½x 3½x8½".** Choice of Mahogany, Walnut, or Maple holders. Individually packed. Ship. wt. 6 lbs.

540A75.....PER SET **$1.95**

8-PIECE MARTINI SET. Large brandy, inhaler-type decanter. **Capacity 3 pints.** Six 3 oz., clear glasses. 9" decanter has convenient lipped pouring spout. Glasses feature heavy solid bottoms. **8¾x11½" aluminum tray with openwork guard rails and tubular handles.** Packed 1 set in carton. Ship. wt. 5 lbs.

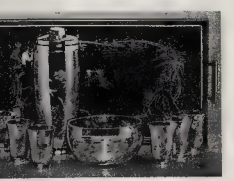
540A68.....PER SET **$2.48**

8-PIECE WINE SET. Six 3½ oz. glasses, 1 qt. decanter, and aluminum tray with openwork rails and tubular handles. Glasses are Ruby color with upper half Crystal. **Gold-striped.** 13½" decanter is also in Ruby and Crystal with Gold-tipped stopper. **Tray size: 8¾x11½".** Ship wt. ctn. 7 lbs.

540A72.....PER SET **$4.75**

9 PIECE LIQUOR SET. Six 3½ oz. glasses and 1-qt. glass shaker—all with frosted palm tree design. Shaker has Chrome cover with removable strainer and cap. 11x16" polished aluminum tray. 1 set in ctn. Ship. wt. 8 lbs.

540A74.....PER SET **$4.25**



9-PIECE LIQUOR SET. 1-qt. clear glass cocktail shaker with metal cover, strainer, and cap. Six 3½ oz clear glasses with etched floral design. 11x15" glass top tray, **(Bowl not included).** Ship. wt. 8 lbs.

540A70.....PER SET **$4.95**

Serving Accessories

SPARKLET DELUXE SYPHONS

Smart in appearance, revolutionary in design, the new Sparklet DeLuxe Syphon is the last word in drink accessories. Makes a full quart of sparkling charged water. Constructed of stainless steel, the vase is impervious to corrosion by food acids or alkalies. New method of charging through bottom of syphon insures higher degree of carbonation and eliminates unsightly charging mechanism. **Directional spout permits operation of the syphon while resting on the table.** Wide mouth for easy filling, cleaning; also permits addition of ice cubes and use of Blue Band Bulbs. A true modern descendant of the world famous Sparklet Syphon. Stainless steel vase, red head. Each Syphon comes packed complete with 3 bulbs. Ship. wt. 4 lbs.

56A18—Retail $10.00.....EACH **$6.67**

Sparklet Bulbs. Sparklets assure a supply of bubbling charged water at a moment's notice. Fits any rechargeable syphon bottle to make sparkling water or other beverages in a jiffy. The easy, inexpensive way. Packed 10 to a carton. Ship. wt. carton 1 lb.

56A14—
Box of 10—65c....PER DOZ. BOXES **$6.80**

Sparklet Blue Band Bulbs. For making ice cream or whipping cream, 5 bulbs in a carton.

56A15—
Box of 5—55c.....PER DOZ. BOXES **$6.00**

"YOU" AND "ME" SET

"Cocktails for Two" with this handsome, intimate set. Individuality is provided by the "YOU" and "ME" inscribed on cups. **Set consists of:** 7" cocktail shaker, 2 cups, and 6x10½" tray. All pieces are gleaming Chromium-Plated on copper base. Packed one set in box. Ship. wt. 2 lbs.

549A109.....

SODA KING RECHARGEABLE SYPHON

The new Soda King Rechargeable Syphon is a triumph of good looks and ingenious design. Makes a full quart of sparkling water more easily and quickly than ever before. Just drop in a few ice cubes and fill with tap water. Slip a Soda King charger into place. Lift the lever and—presto, it's charged. Push down the same lever, and out of the nozzle comes peppy, sparkling water. **Only 10" high—fits refrigerator shelves.** Base is seamless stainless steel. Smartly styled Red or Black enameled top. Mixes highballs, ice cream sodas, and many other drinks. **No bottles to return. No half-used, half-dead soda water.** Keeps its peppy sparkle for days when kept in refrigerator. Ind. boxed. Ship. wt. 4 lbs. **Retail $12.00.**

Soda King Syphon, with 3 Super-Chargers.....EACH **$8.00**

56A4

SODA KING CHARGERS

Nationally known Soda King Chargers. Each bulb makes a full quart of delicious sparkling water in either all-metal or glass lined Soda King syphons. Chargers are packed to be fully charged with pure carbon dioxide. Packed 10 to a carton. Shipping weight carton 1 lb.

56A5—Per Box of 10 85c..PER DOZ. BOXES **$6.80**

PLASTIC ICE CUBES

Chill your drink . . . don't dilute it! Nice cubes are crystal clear plastic cubes with water permanently sealed in. Place in freezer. When frozen seal put in drinks. When melting they keep water from diluting beverage. Tasteless—odorless—last indefinitely. Packed 8 assorted colors in box. Ship. wt. 1 lb.

Retail $1.98.

548A191.....PER BOX OF 8 **$1.20**

GLASS KEG SET

Quaint, appropriate set for a game room or den. Three pint size stoneware keg with sanitary glass inside, fire blue gloss finish outside with hand painted red and white stripes. Mounted on blue colored wood stand. Set is complete with four whisky or shot glasses, faucet, and bung. Ind. pkd. Shpg. wt. 5 lbs.

540A126—Each $1.45.

IN LOTS OF 3, EACH **$1.35**

ALL PRICES WHOLESALE NET, LESS 2% DISCOUNT FOR CASH

HEAVY DUTY CORKSCREW

Solid Brass in a bright finish. Steel screw cogs on handles exert sufficient power to extract the most stubborn cork. Width of handles at right angles 9", individually wrapped. Ship wt. 1 lb.

540A131.....EACH **$1.25**

PER DOZEN $13.50

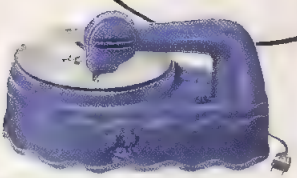
MAGICFLO SIFON JIGGER

No spill. No waste. Automatically repeats one measured drink after another without changing pouring position. Brief pause after each ounce "shot" permits shift from one glass to another. Saves time. Serves liquor. Made of plastic with cork base to fit any liquor bottle. Wide range of color combinations. Packed ½ doz. in handsome display carton. Shipping weight per carton 2 pounds.

540A85—Each—$1.10.

IN LOTS OF 8, EACH **97c**

MORE '51 PLASCO PROFIT-MAKERS

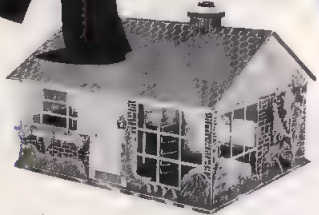


COLORFUL ALL-PLASTIC RECORD PLAYER

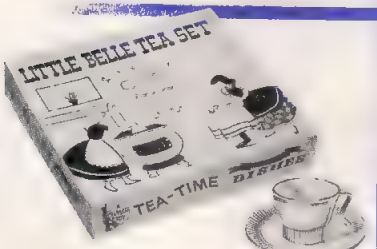
with exceptionally fine tone

This is the record player featured in full-page national ads. Tone and clarity are far superior to ordinary "toy-type" record players. Plays all 78 RPM records up to 10". Permanent needle. Colorful, two-tone pink and blue Special-formula plastic.

ALL-PLASTIC 4 ROOM DOLL HOUSE



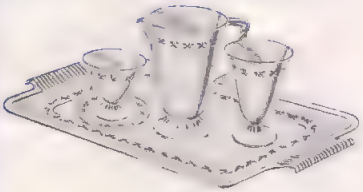
Any little girl will want to "move right in" when she sees this realistic doll house. Roof lifts off for easy arrangement of miniature furniture.



"LITTLE BELLE"* JUNIOR TEA SETS

So real, kids love them for their own meals! In assorted pastels. Amazingly durable no matter how roughly handled. Set consists of cup and saucer, sugar, creamer, plate, utensils.

In Brand New Colorful Box



"SIP-'N-SNACK"* REFRESHMENT SET

Looks just like Mother's best crystal! Sparkling plastic with smart red base, roomy tray. Assorted sets

*All trade marks Reg U.S Pat Off

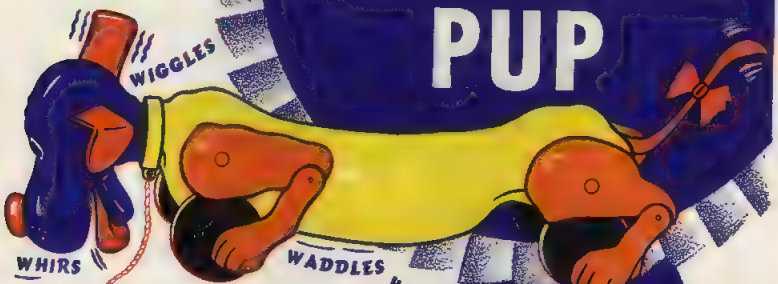
STEP RIGHT THIS WAY FOLKS

It's a Big Year for Alice in Wonderland!
So feature the
NEW
PLASCO
ALICE
IN
WONDERLAND
Reg. U.S. Pat. Off.
TEA TIME DISHES
In Brilliant Tea-Party Boxes
TEA TIME DISHES
• Molded of plastic, but looks like real china in heavenly blue, with authentic fluted pattern.
• Each piece embossed in white with a favorite character from Alice in Wonderland — Alice, the Queen, the Mad Hatter, etc.
• Boxed in colorful Tea Party self-displayer package.
• In attractive assorted sets.
PLASTIC ART TOY CORP. OF AMERICA, LARLSTADT, N. J.
NEW YORK SHOW ROOM: ROOM 965, 200 FIFTH AVENUE

NOSCO'S

Poochy the PET-AGREE PUP

Nosco's
dog show attraction
with
built-in action



Poochy, the most faithful puppy a child ever had, is a Pet-Agree pup with built-in action. He jiggles and joggles, wiggles and wags, snoops and snorts. Poochy can't bark yet, but he does make a growling noise. Children can't resist his "I-want-you-for-a-playmate" expression and parents approve his gentle manner. Poochy tags along after the little ones, with all four legs on wheels keeping in step, his pliable ears wiggling to and fro, his wagging tail tied with a big bow. Poochy is smoothly molded of colorful plastic and is constructed for rugged play. He is a champion show dog that will show you how fast and easy Nosco Toys sell. Order and display Poochy, the country's No. 1 pet—your No. 1 bet for toy profit.

The DARLING *of* DOGLAND

The
POOCHY PACKAGE

The outstanding, brilliant three-color Poochy package is the newest attraction at toy counters everywhere.

NOSCO'S
TOY FAIR DISPLAY
ROOMS 1116-18 HOTEL McALPIN

Catalog No. 6450
Size 18½ long, 4¼ wide, 5 high
Multi-colored "Poochy" comes in attractive package

Nosco PLASTICS ERIE, PA., U. S. A.

NEW YORK SHOWROOM 200 FIFTH AVENUE
Address all correspondence to Erie, Pa.

New Toys on Parade

Siebert Comfy-Carriage

A three-in-one boon to the modern home maker is the Comfy-Carriage, amazingly simple in design and smart in appearance. The body of the carriage just lifts out of the wheel frame and becomes a bassinette or car crib. Easily portable, light in weight, and luxuriously lined, it makes a very cozy bed for the nursery (comes in four color combinations) and yet makes baby feel right at home while traveling. The wheel-frame folds into a compact unit, so that it is easy to take the complete Comfy Carriage combination on trips.

The carriage has a fully padded rail, heavy quilted sides of durable, rubber treated cloth. It is lined front and rear, has a rubber-cloth bottom and heavy, padded cushion. A four-position back keeps baby happier, longer. The hood snaps on and off. The wheel frame features a three position pusher to accommodate mothers and fathers of all heights.

The three-in-one Comfy-Carriage was especially prepared for families where space is at a premium. But it has received an enthusiastic response from mothers because it is so convenient not to have to move a sleeping youngster from carriage to bassinette, or car-crib. Both manufacturers and psychologists feel that the innovation of the Comfy Carriage helps to keep young babies feeling secure and comfortable, without baffling changes. The three-way Comfy-Carriage is no higher in price than a reasonable carriage alone and is made by the O. W. SIEBERT COMPANY of Gardner, Mass. Buyer reception at its first showing during the January Market in Chicago was reported enthusiastic.

Alice in Wonderland Tea-Time Dishes

Plasco brings out this newest version of its famous Alice in Wonderland Tea-Time plastic dishes in authentic fluted pattern. The lovely blue with white embossed figures of Alice in Wonderland characters resemble a famous, world-renown china. Assorted sets come boxed in a gay Tea-Party Box that serves as a self-displayer in the store.

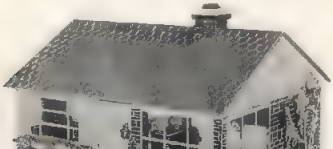
Product of PLASTIC ART TOY CORPORATION OF AMERICA, sets will be on display at the March Toy Fair in Hotel New Yorker, Room 840, and at 200 Fifth Avenue, Room 965.

New Plastic Artistic Faun

Another addition to the brilliant Artistic toy line of stuffed dolls and animals is this cute, playful-looking, plastic-coated faun. Beautifully colored, be-ribboned, and bewitching, this faun has the usual Artistic touch—realistic ears, contrasting outside saddle stitching and waggy tail.

Kids will love it and Mother, too, because she knows the colors are non toxic and the Watzeal plastic wipes clean with a damp cloth.

The faun is extra big and will take the roughest handling. ARTISTIC TOY CO., S E Cor. 3rd and Cambria Sts., Phila. 23, Pa., is the maker.



Plasco Doll House

Plasco features this new, all-plastic four-room doll house with a gay, colorful exterior. The roof lifts off for easy arrangement of miniature furniture.

PLASTIC ART TOY CORPORATION OF AMERICA, which produces this doll house along with other toy items, will display its line at the March Toy Fair in Hotel New Yorker, Room 840, and at 200 Fifth Avenue, Room 965.

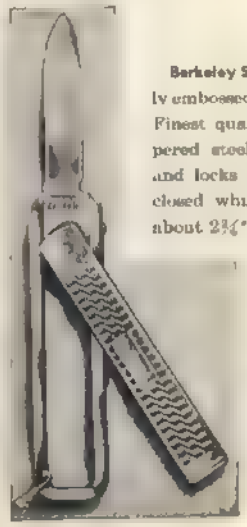
AN EXCELLENT SELECTION OF FAST-SELLING MODERATELY PRICED POCKET KNIVES

2-Blade Boy's Jackknife. Clip and pen blades. Full nickel bolsters and cap. Assorted color celluloid handles. Length closed 3". 1 dozen on display card.
No. 10C68. Per dozen 4.35

2-Blade Pen Knife. Simulated Pearl handle brass lined. Length about 3⅛" when closed. Blades mirror-polished. 1 dozen in box (no less sold
No. 10C74. Per dozen 3.92

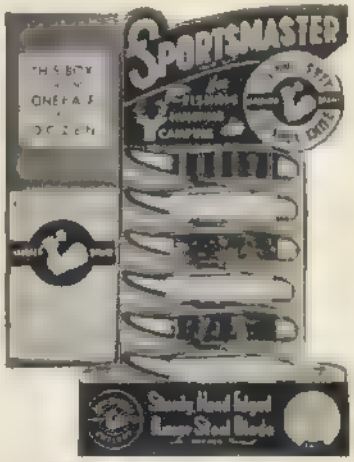
2-Blade Jack Knife. Serpentine Pattern. Clip and pen blades—full mirror polished. Brass lined. Polished bolsters and shield. Size closed 3". 1 dozen on display card
No. 10C113. Per dozen 4.35

Christy Sport Knife. Metal handle with Ring for Chain. Mirror polished blade. Size closed 3½". Individually boxed, one dozen to carton.
No. 10C23. Per dozen ..... OUT



Barkeley Swing-Lok Knife. Smartly embossed luxury-chrome finish. Finest quality scientifically tempered steel blade. Swings open and locks open so it can't snap closed while in use. Size closed about 2¾". One dozen in attractive counter display container holding 12 knives in individual boxes (no less sold Retail 1.00 each.
No. 10C37.
Per dozen.. 7.06

"Deputy Sheriff" Set. Boy's 1-Blade Jack Knife with chain and cast metal star embossed "Junior Sheriff". Size of knife closed 3". Has colored metal handle with colored illustration, polished cap and bolster, spear point blade mirror polished and 14" cadmium plated link chain Each set on card, 1 dozen cards in carton (no less sold).
No. 10C121. Per dozen 4.35



"Sportsmaster" Switch-Back 1-Blade Knife. One large clip-blade, mirror polished; fancy colored celluloid handle with polished nickel type cap and bolster Size of knife closed, 4¼". One dozen on display card
No. 10C36. Per dozen 4.35

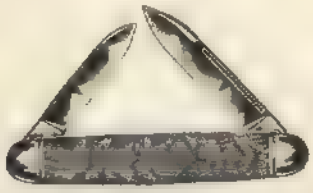
"Long Ranger" Pocket Knife. 2-blade boys knife-spear and combination screw driver-cap lifter. Assorted colored handles. Has picture of "Lone Ranger" and "Silver" on front; a half-round "silver bullet" on back. With genuine rawhide thong attached. Size of knife closed about 3½". 1 dozen on attractive display card.
No. 10C115. Per dozen..... 5.88

2-Blade Jack Knife. Serpentine Pattern. Highly polished blades of high-carbon steel. Assorted color handles with nickel plated bolsters and shield. Length closed 3½". 1 dozen in container
No. 10C62. Per dozen..... OUT

1-Blade Cross-Bar Dagger Knife. Clip blade Full metal bolsters. Assorted color Pyralin handles Length closed 3½". 1 dozen on attractive display card
No. 10C100. Per dozen 4.35

3-Blade Kamp Knife. Scout type. Spear-point, cork-screw and bottle opener, and can opener blades Black-enameled metal handle with shackle Blades mirror polished. Length closed 3½". 1 dozen on card
No. 10C98. Per dozen 3.92

Pocket Knife Assortment. 2 blades—full mirror polish. Assortment consists of 6 jack knives with simulated stag handles and 6 with colored celluloid handles. Size of stag handle knives closed 3⅝", of colored celluloid handles 3½". 1 dozen in display box (not carded).
No. 10C38. Per dozen..... 6.00

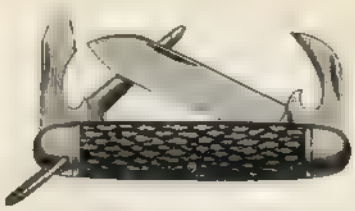


Pocket Knife. Two blades, mirror polished. Celluloid handles in assorted colors, with full nickel type bolsters. Size closed 3½". 1 dozen in box
No. 10C30. Per dozen..... 5.88

A Wide Choice of Moderately Priced Pocket Knives

Heavy Duty Pocket Knife Assortment. Three blades, even end assorted colored celluloid handles, nickel silver bolsters, no shield. Master blade, assorted clip and spear, spay and leather punch all mirror polished. Size closed, 3⅝". 1 dozen in display box.
No. 10C19. Per dozen..... **7.35**

Push Button Knife. High carbon steel single clip blade—full mirror polished. Brass lined. Slide lock. Assorted color handles. Size closed 3⅜". 1 dozen on display card
No. 10C108. Per dozen **7.06**



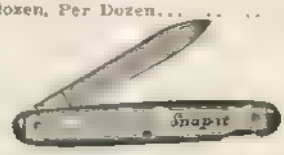
4-Blade Camp Knife Simulated Bone Stag Handle Spear Can-Opener, Punch and Screw Driver Cap Lifter Blades. Brass Lining, Nickel silver bolsters and shackle Length closed 3¾". ½ dozen in box (No less sold).
No. 10C32. Per dozen **8.82**

Three-Blade Jacknife Assortment. Serpentine shape. Colorful assorted celluloid handles Nickel bolsters. All have clip, pen and spay blades. Size closed, range between 2¾" and 3⅛". 1 dozen on display card
No. 10C66. Per dozen **7.84**

Press Button Knife. One large clip blade. Polished cap and bolster. Mirror polished blade. Assorted simulated pearl and candy-stripe handles. Size closed 4¼", size open 7⅛" 1 dozen in box with display card.
No. 10C114. Per dozen.....**7.84**

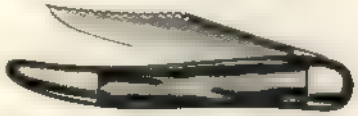
Hopalong Cassidy Trail Knife. 3 blades [illegible] spear point pen and screw and bottle opener. Closed 3½ inches. Black celluloid handles with photo of Hopalong Cassidy on horse. Brass lined polished bolsters with shackle and Vinylite Belt loop. 1 dozen on display card
No. 10C130. Per Dozen **7.80**
Lots of 6 dozen, Per Dozen..... **7.20**

Waldemar Knife Size closed 2¼ inches. 2 blades, full mirror polished Imitation pearl, celluloid handles with polished tips and shackle for attaching chain. 1 dozen in box (No less sold).
No. 10C67. Per dozen **5.88**



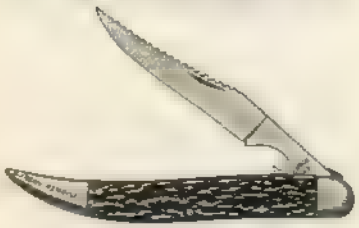
"Snap-It" Pocket Knife. A snap to open! Press spring at cut-out to open. To close press spring again close blade until it locks. Top quality steel hand edged blade Pearl celluloid handle brass lined nickel silver tips. Size closed 3¼" 1 dozen on attractive display card.
No. 10C61. Per dozen **7.06**

FOR THE FISHERMAN



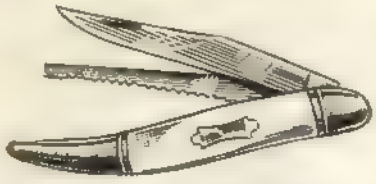
Fish Knife with Scaler. Large clip blade with scaler back, mirror polished. Fancy colored celluloid handles with nickel bolsters and caps. Size closed 4½" 1 dozen on display card.
No. 10C99. Per dozen..... **4.35**

Fisherman's Knife. 4-inch clip blade with serrated back for scaling fish. Of high carbon steel, mirror polished, all white celluloid handles Size of knife 5 inches. 1 dozen on display card
No. 10C13. Per dozen **5.25**



Fishing Knife. Clip blade with scaler and caplifter. Simulated stag handle brass lined with lock to keep blade from closing when in use. Nickel silver bolsters with disgorger. Length closed 5". 1 dozen on display card
No. 10C117. Per dozen..... **7.60**

Jack-O-Matic Safety Push-Button Knife
Made under Schrade-Walden patents. One large clip blade with serrated back for scaling fish, mirror polished. Assorted simulated pearl and candy stripe handles, brass lining, polished cap and bolster. Size closed 4⅛". Size overall open 7⅛". 1 dozen in box with display card.
No. 10C122. Per dozen **7.80**



2-Blade Fish Knife. Size closed 5". Consisting of one cutting blade and one combination hook and fish scale remover, of high carbon steel, flat, polished White celluloid handle, polished cap, bolster and shield 1 dozen on display card
No. 10C9. Per dozen **7.84**

"CAMILLUS" FISHERMAN'S LUCK

"Fisherman's Luck" by Camillus. (Mfg. No. 5). The perfect knife for fishermen, hunters, and woodsmen—used as a scaler, bottle opener, hook disgorger, and cutter Chrome-plated rust resistant custom steel blades with caplifter and scaler edge hand honed under oil Rust proof nickel silver bolsters Brass linings and lock (which keeps blade open when in use Unbreakable maize pyroxylin handle Length closed 5". ½ dozen in box
No. 10C63 Per dozen **16.00**

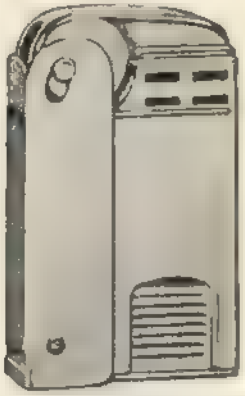
Popular Selling POCKET LIGHTERS

Nickel Design

Actual Size

Regens Windproof Stormliter The all-purpose lighter we have been waiting for. Easy to operate 1 piece stick. Just bore in open wick, instant flame to light pipe, gas stays out. Removable ink. Nickel finish in assorted designs. Each in carton.

No. 83J733. Per dozen....10.58



Mirror Design

Actual Size

Regens Streamlined Stormliter. Bright polished chrome panel. With all the famous Regens windproof Stormliter features. Each in carton.

No. 83J764 Per dozen..14.11

Enamel Design

Actual Size

Regens Windproof Stormliter Bright polished chrome plated with assorted colored enamel designs. With all the famous Regens windproof stormliter features. Each in box.

No. 83J833. Per dozen.....14.11

Etched Assorted

Actual Size

Regens De-Luxe Stormliter Yellow gold finish with assorted designs engraved that is long lasting and beautiful in any weather. For lighting pipe as well as cigarette and cigars. Each in gift box.

No. 83J734. Per dozen...17.64

Clinton Automatic Table Lighter. Entirely windproof. Double asbestos wick assures lifetime use. Attractive engine turned designs. Unconditionally guaranteed. Packed 1 to attractive counter display card. Retail 1.00 each.

No. 83J854. Per dozen.....7.35

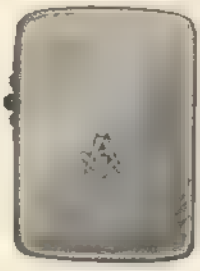
Park Storm King Windproof Lighter. Engine turned design in silverette finish. Mounted 6 to attractive display card. Retail 98c each.

No. 83J664. Per dozen..... 7.50

PARK LIGHTERS

Deluxe Park Slim Lighter. Beautiful polished chrome finish. Park sure-fire action that is guaranteed for lifetime. Individually boxed. Retail 2.00.

No. 83J799. Each.....1.20

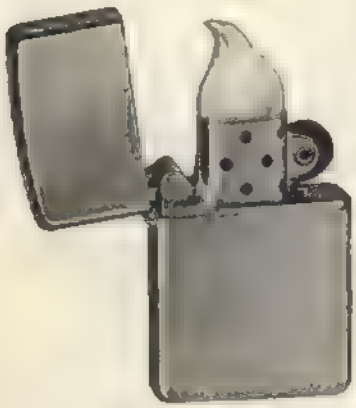


Deluxe Park Masonic Lighter. Beautiful anodized silver like finish with rich multi-colored fraternal insignia. Individually boxed. Retail 2.00.

No. 83J800. Masonic Lighter. Each.....1.20

Can be supplied in other fraternal emblems on special order in lots of 2 dozen.

ZIPPO *Wind-Proof, Never Fails* LIGHTERS



Genuine Zippo Windproof Lighter. Solid metal with a bright silverlike finish. Nationally advertised. Individually boxed and fully guaranteed by the factory. Retail 3.00.

No. 83J498. Each.....1.76

Zippo Lighter. Flashing . . . bright . . . a "jewel" of a lighter, in gleaming chromium. It includes every established Zippo feature dependability, ease of filling, fine precision workmanship and cost-free operation. Retail 4.00.

No. 83J735. Each.....2.35

Zippo Lighter. The brilliance of fine chromium-plating is enriched by a delicately executed engine turned design. And the dependability of Zippo's unsurpassed windproof design . . . compactness and lightness, makes this a truly deluxe lighter. Retail 5.00.

No. 83J736. Each.....2.94

SCHICK ELECTRIC SHAVERS

NEW Schick "20"

Shaving at its very best and newest from the people who made shaving easy—from the inventors of electric shaving. Schick. ***An entirely new shape***—beautifully balanced, finger-fitting, with non-slip grip. Packed with new features that add up to shaving pleasure never known before.

New Hi-Velocity Heads, with higher speed from longer cutter thrust—compact, close-cropping. New Snap-Start Button snaps them into action. New and larger Whisk-Its to catch clippings. And —the new Schick motor that packs more power than any Schick ever built. AC or DC, 110-120 volts. Static suppressor. Underwriters' Laboratories approved. Comes packed complete with new matching cord, flexible plastic cord ring, shearing headguard and cleaning brush in handsome new Caddie Case specially designed for the Schick "20." In a rich leather-like covering, saddle stitched, lettered in gold. Handily sized for medicine cabinet, wash-basin shelf, dressing room —or for traveling. Weight 1 lb 5 oz.

RETAIL
$24.50

No. 83J864.
Each 15.61
Lots of 6 or more Each 14.41

NOTE—Lots of six or more price applies to orders for six of one model or assorted.

Schick Colonel. Made to shave closer than ever with its brand new 3-M Hollow-Ground Shearing Head. The head arches the skin gently, the interceptor bar makes each whisker it meets stand erect—and every hair is cropped down at its base, at clean skinline. Sides ribbed for non-slip grip and hinged-on Whisk-Its. Smooth-running, long-life motor for AC or DC, 110-120 volts. Static suppressor. Underwriters Laboratories approved. Comes packed complete with matching cord, flexible plastic cord ring, shearing headguard in smart, beautifully covered 2-tone travel case. Retail 17.50.

No. 83J787 Each
Lots of 6 or more Each 11.14 10.29

Schick Super. New Step-Saver Switch turns motor on or off at a finger-touch. New power-packed motor speeds V-16 Shearing Heads through toughest whiskers. New nylon cushioning, new actuating lever give trouble-free performance. New Stream-Flo Guards are ribbed for non-slip grip. Note new Step-On Whisk-Its thread to grasser whiskers all by themselves. All on the 110-120 volts Static suppressor. Underwriters Laboratories approved. Complete with matching cord in new plastic ring, cleaning brush, shearing headguard in new all-metal travel case, handsomely covered 2-tone leather-like and gold. Retail 22.50.

No. 83J785 Each
Lots of 6 or more Each 14.33 13.23

ROLLS RAZOR

The only safety razor that gives many years of shaves with one blade. Hollow-ground from the finest Sheffield steel, this blade is always kept keen by the built-in strop and hone. Easy and quick to use for years of superb shaving.

ROLLS RAZOR IMPERIAL No. 2

In simulated blue Morocco case, satin lined with velvet platform. Retail 15.00.

No. 83J22. Each 9.55
Lots of 6, Each 8.82

SPARE PARTS

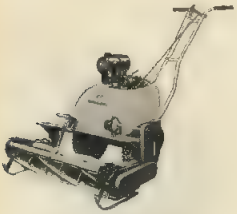
No. 83J266.	Blade Holding Clip. Each	.38
No. 83J267.	Strop. Each	.79
No. 83J268.	Hone. Each	1.12
No. 83J269.	Blade. Each	2.39

ROLLS RAZOR TRAVELER

In simulated alligator case, satin lined, with velvet platform. Contains extra blade. Retail 18.75.

No. 83J270. Each 11.94
Lots of 6, Each 11.02

POWER LAWN MOWERS



REO TRIMALAWN

Tires ride over mowed area only! No packing down of uncut grass . . . no unsightly ridges

Trims to 1¼" of hedges, trees, lawn edge, flower beds, statuary, etc.

Convenient lever for instant, selective finger tip control of cutting unit and tractor, even while engine is running

Flexible "knee-action" mounting on tractor helps cutting unit hug ground contours for more even mowing

Micrometer hand adjustment requires no tools to achieve perfect alignment of cutting reel to bottom knife

Specifications

CUTTING UNIT—Full Floating "Knee-Action" Trimmer Type with 5-blade reel and one piece cutting bar of heat treated steel. BOTTOM KNIFE ADJUSTMENT—Two brass micrometer type hand adjusting screws permit precise alignment of bottom knife to reel within .001". REEL BEARINGS—Automotive Type Annular Ball Bearings Neoprene sealed on both sides, pre-lubricated for life. PACKAGING: 1 per crate, handle in separate carton.

Motor

TYPE—4 cycle—Single Cylinder—Air Cooled—Throttle Control. STARTER—Rope Starter for sure, efficient starting. IGNITION—High Tension, moisture and dirt-proof flywheel magneto. LUBRICATION—Positive splash system practically eliminates oil pumping for life.

GOVERNOR—Air-vane type requires no adjustments, provides speed regulation on any throttle setting. CARBURETION—Down Draft Effect.

CRANKSHAFT—One-piece alloy steel forging induction hardened and precision ground. Mounted on two steel backed babbitt lined main bearings. CONNECTING ROD—I beam, aluminum alloy, with oversize bearings. PISTON—Automotive type aluminum alloy, with 2 compression rings and one oil control ring. CYLINDER—Fine grained cast iron, bored and honed. HEAD—Aluminum for better cooling efficiency. VALVES—Nickle chromium steel intake valve. Austenitic steel exhaust valve. Simple single cam valve mechanism with minimum number of parts. 1½ HORSEPOWER · Reo Motor.

No. RD-25—25 in cut . . . . . Each $181 45

REO ROYALE

•"Magic Touch" Control•Adjustable Handle •Fully Enclosed Drive•No Oiling

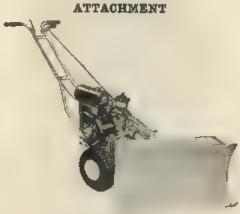
REEL. 6 high carbon hardened steel blades, double riveted to 5 steel spiders. Solid steel shaft. Blades precision sharpened and hardened to stay sharp. TWO-WAY ADJUSTABLE CUTTING HEIGHT: ½" to 2⅝" . . . REEL BEARINGS: Automotive type ball bearings, pre-lubricated, Oil-impregnated bronze bearings on wheels and power shaft. DRIVE WHEEL GEARS—Precision Roller Chains permanently held in place by steel backing plates. WHEELS: 10" diameter steel with semi-pneumatic, puncture proof rubber tires. TRAVEL SPEED. Up to 3½ mph. FINISH: Baked-on enamel. PACKAGING: One per carton. Handle in separate carton. SHIPPING WEIGHT: 110 lbs.

Motor

TYPE—4 cycle, single cylinder, air cooled, throttle control. Rope starter. Ignition—High tension, moisture and dirt proof flywheel magneto. Lubrication—positive splash system. Governor—air vane type requires no adjustments, provides speed regulation on any throttle setting. Develops 1½ Horsepower

No. WD21 21 in. cut . . . . . Each $104 45

REO SNOW PLOW ATTACHMENT



Specifications

CLEAR PATH CUT—24 inches. Moves snow from left to right. BLADE—⅛" sheet steel, 16 inches high, 28 inches long, set at a 30 degree fixed angle to tractor. WEIGHT BOX—Sheet Metal box attached behind plow blade. Fill with approximately 40 pounds of sand, gravel, bricks, or other heavy material to hold down front of plow. BLADE SKID—Curved skid of ½" rounded steel welded to left hand lower corner of plow blade. This skid carries leading edge of snow plow over rough areas in walks and drives. NET WEIGHT of snow plow attachment only: 30 pounds.

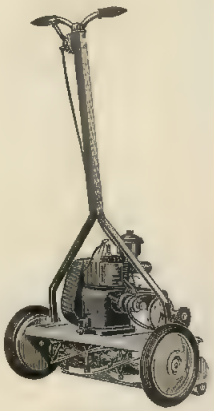
Fits all Trimalawn power mowers

Snow Plow . . . . . Each $19 95

RED "TOWNE HOUSE" ELECTRIC

Large capacity, 21-inch cut. Plugs into any 110 volt, 60 cycle, AC light socket. ½ Horse Power Motor starts and stops by moving a handle. Self propelled. All steel construction. Totally enclosed belt and chain drive. Non slip roller chain and steel sprockets give full use of motor power. V Belt clutch provides smooth start. All are completely enclosed. To adjust bottom knife to the reel it is only necessary to turn the micrometer-type hand adjusting screws. Permits alignment up to .001 in. 100 feet Heavy duty cord.

WDE21—21 in. . . . . Each $83 88



DAVIS "50/50"

Briggs & Stratton 1.1 H.P. engine. Flex-A-Matic Clutch with full safety release. Roller chain drive, countershaft to reel. Hyatt precision Roller Bearings. Six inch reel. Five 18-in tempered Crucible Chrome Alloy Blades. Four heavy ribbed malleable iron spiders. Semi-Pneumatic Tires, 10-in diam., mounted on cast wheels. Two screw blade adjustment. 2½-in. Hardwood roller. Maleable iron roller brackets. Double cast side frame. Tubular steel handle; plastic handle grips. Shipping wt. 110 lbs.

Davis 50/50—18-in cut . . . . . Each $79 95

Hit the Profit Mark!

with Premier's New

WESTERN WATER PISTOL

This new repeating western water pistol is authentically designed in plastic from a fine old western gun. "Junior Ranger" is an improved water pistol that features a strong pump action that gives the gun an excellent range and a large reservoir which enables the youngsters to shoot about 300 times without refill. The gun can be completely filled with water the level of which is always visible. "JUNIOR RANGER" is packaged in an attractive Red and Blue sales getting box and may be obtained in assorted colors . . . RED, GREEN, YELLOW, BLUE.

Shipped 1 Gross to shipping carton. Weight 30 lbs.

SEND YOUR ORDER IN TODAY — FOR IMMEDIATE DELIVERY

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Cordially Invites You

To See Its 1951 Line at the Toy Fair

ROOM 633 - HOTEL McALPIN

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PRINCESS ANNA DOLL COMPANY, INCORPORATED

29 JUMEL PLACE NEW YORK 32, N. Y.

REACH FOR YOUR ORDER BOOKS!

WE'VE GOT YOU COVERED... UP TO NOW, THAT IS!

Sales of Hopalong Cassidy toy and novelty products are doubling and trebling at both manufacturer's and retail levels. In order to insure a proper flow of Hopalong Cassidy merchandise in your store, we urge that you place your commitments early.

The new Hopalong Cassidy Merchandising Magazine, specially prepared for the toy and novelty field, will be ready in March. If you haven't been receiving your copy, please write

Additional entertainment penetration to further increase Hopalong Cassidy sales! "HOPPY TALK," a new newspaper column by Hopalong Cassidy, now being distributed by King Features.

HOPALONG CASSIDY ENTERPRISES
211 South Beverly Drive • Beverly Hills, California
BRadshaw 2-1101

Remember, '51 will be Hoppy's biggest year! (That is, so far.)

Racine Watches and World Renown Gallet Chronographs for Precision Timing and Professional Use. For Sports, Nurses and Doctors, Industry, Broadcasters and Technicians

Nurses' Watch with Silk Cord. Featuring sweep-second, 8½ ligne, fine Gallet movement. 10Kt. yellow gold filled case, 17 jewels.
No. 12W22. Each..... **28.66**

Nurses' Steel Case Water Repellent Watch. This smart ladies' model has the same unique features as the other Racine watches. Dial features sweep-second hand. Equipped with leather strap. 8¾ ligne, 17-jewel movement.
No. 12W21. (Rad Dial)..... **28.66**

Sweep Second Hand Luminous Dial. Professional men and service men will treasure this stainless steel watch. Rustproof model made by the new patented process. Accurate 17-jewel Gallet movement, water repellent. Dial has outer circle 1 to 12 and inner circle 13 to 24 for 24-hr. dial timing.
No. 12W19. 10½ Ligne..... **25.16**
No. 12W20. 11 Ligne (Incabloc shock resistant)..... **25.16**

New Double-Button Chronograph. 14 ligne; 17-jeweled movement; stainless-steel case, time-out feature telemeter and tachometer feature, 45 minute register.
No. 12W44..... **44.59**
No. 12W45 (Rad Dial)..... **44.59**
Same with plain dial without Telemeter and Tachometer.
No. 12W46 Each..... **44.59**
Same with Radium dial and hands without Telemeter and Tachometer.
No. 12W47. Each..... **44.59**

New Double-Button Gallet Chronograph. 30 minute register; 14 ligne, 17-jeweled high quality movement, steel case, time-out feature, 12 hour totalizer, for aviators automobile and motor boat racing. After timing a measured mile the sweep-second hand will show the miles per hour on the telemeter scale.
No. 12W48. (Plain Dial)..... **64.66**
No. 12W49. (Telemeter Dial)..... **64.66**

STERLING SILVER

Gallet Nun's Watch. Accurate 10½ ligne, Gallet 17-jewel movement. Dial features sweep-second hand.
No. 12W24. (Rad Dial) **26.11**

Double Button Gallet Multichron. Stainless steel case, 13 ligne, 17-jewel Gallet movement with 30 minute register. Water repellent.
No. 12W50 Telemeter and Tachometer dial..... **52.23**
No. 12W51. Telemeter and Tachometer Rad dial..... **52.23**
No. 12W52. Plain dial..... **52.23**
No. 12W53. Radium dial..... **52.23**

New Gallet Calendar Watch. Latest type Calendar Watch shows day, date, and month. 30 minute register; 17-jeweled excellent quality movement; 14 ligne, steel case time-out feature; 12-hour totalize.
No. 12W18. Each..... **75.16**
Same as above 14K solid gold with gold finished dial with raised gold numerals.
No. 12W54. Each..... **125.49**

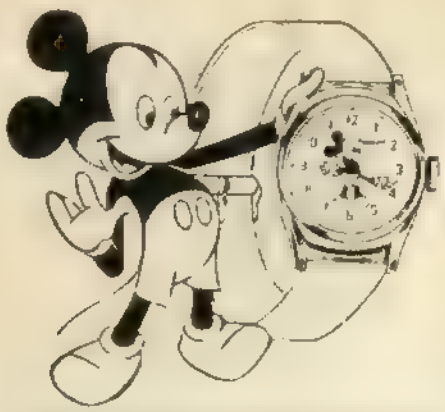
New Stainless Steel Gallet Chronograph. Incabloc Shock resistant 13 ligne, 17-jewel double-button for lapse timing and 45 minute register. Water repellent.
No. 12W55. Plain dial..... **57.55**
No. 12W56. Radium dial..... **57.55**
No. 12W57. Telemeter and Tachometer dial **57.55**

New Gallet "Flight Officer" Water Repellent Chronograph. Equipped with foolproof stainless steel Staybrite case. First quality, 13 ligne, 17-jewel movement with double push action. Featuring two novel advantages (a) HOUR CONTROL — (b) WORLD TIME
No. 12W14. Radium Dial..... **56.05**

Lady's or Gentleman's Steel Gallet Chronograph. 10½ ligne 17 jewel movement. Double-button for lapse timing and 30 minute register.
No. 12W60. Each..... **64.00**

Double-Button Gallet "Multichron." 30-minute register, 13 ligne, 17-jeweled, dependable movement. Steel-back case with added time-out feature. For aviators, automobile and motor boat racing. After timing a measured mile, the sweep-second hand will show the miles per hour on the red figure.
No. 12W16. Telemeter and tachometer dial.. **29.64**
No. 12W17. Plain dial..... **29.64**

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.



"MICKEY MOUSE"

The most popular cartoon character in the country. Ingersoll guaranteed movement. Shining chrome case, washable red Vinylite strap. Each in illustrated gift box. Priced to retail at 4.95 plus tax.

No. 11W6. EACH 3.47

Hopalong Cassidy WRIST WATCHES

For Boys and Girls

The most popular selling name in American now on a watch by U. S. Time Corp. Chrome finished cases with western style keepers and buckles. Leather strap with colorful western motif. Dial has picture of Hopalong on it. In lithographed gift box. Girls size is smaller than the boys.

BOY'S MODEL Retail 4.95 plus tax. No. 11W150 EACH **3.47**

GIRL'S MODEL Retail 6.95 plus tax. No. 11W151 EACH **4.87**

NURSE'S LAPEL WATCH

White enamel case with white enamel lariat pin. Lariat allows watch to be pulled out to any desired length, immediately snaps back securely to pin. Retail 8.95.

No. 11W137. Each **5.85**

Walt Disney's CINDERELLA WRIST WATCH

WATCH IS IN TRANSPARENT PLASTIC SLIPPER

Small Chrome Plated Watch with a pink dial with colored picture of Cinderella in her blue ball gown. Blue Fabric material strap.

The gift box with the plastic slipper is illustrated with colorful scene from the motion picture.

Retail 6.95 plus tax. No. 11W152 EACH **4.87**

TIMEX watches meet every test of accuracy and dependability. They have features never before found in the inexpensive watch class — temperature compensated hair spring, shock-proof construction, three position adjustment.

TIMEX

Timex Watch. 10k rolled gold plate bezel with stainless steel back. Gold finish with black numerals. Leather strap. Retail 9.95 plus tax.

No. 11W131. Each. **6.50**

Timex Watch. 10k rolled gold plate bezel with stainless steel back. Curved crystal. Leather strap. Retail 9.95 plus tax.

No. 11W132. Each **6.50**

Timex Watch. In 10k yellow rolled gold plate bezel with stainless steel back or all chrome case. Natural pigskin strap.

No. 11W129. Yellow. Retail 9.95 plus tax. Each **6.50**

No. 11W138. Chrome. Retail 6.95 plus tax. Each **4.54**

Timex Water Resistant Watch. Steel bezel and back. Shockproof. 12 numeral dial. Grey leather strap. Retail 9.95 plus tax.

No. 11W133. Each **6.50**

Timex Radiolite Watch. 10k rolled gold plate bezel with stainless steel back. Black dial. Radiolite hands and numerals. Pigskin strap. Retail 10.95.

No. 11W130. Each **7.15**

adults. Some of the adult farmers will keep on learning new things anyway, and would get along without extension agents. Other adults do not learn, and time spent on them is not very productive. Young people from 10 to 20 will always learn if their interests are aroused. That's the time to pry minds open.

★

Every oldster can see that farming has progressed enormously these last 30 years. Why? Well, science has shown us many better methods. Invention has given us far better equipment. But do science and invention by themselves explain why one farmer today produces much more than one farmer did 30 years ago? Don't *people* count? Hasn't something happened to farmers, too? Our top farmers today, in most cases I believe, started differently from the ways their grandfathers started. They had 4-H and F.F.A. experience. Their minds were opened early, and they have ever since eagerly grabbed at new ideas and new equipment.

★

The time to educate comes when people are young. I am sure that education deserves more credit than it has been given for agricultural progress. I am sure that this progress would continue and advance faster if less time were now spent trying to change those who are too old to learn, and the same effort were expended on the youngsters who are at the right age to learn. Plain arithmetic dictates the lesson that educating youth pays longer dividends. Teach a boy something, and he may use it for 40 years; teach a man the same thing, and he has less time to use it, just because the undertaker will get the man before he gets the boy.

★ ★ ★ ★

FINANCIAL PEOPLE are familiar with the Moody list of 200 representative common stocks and their yields. It has been published for many years back. Which pays off better, farms or stocks? My long-time friend, Cornelius J. Claassen, founder of the Farmers National Company of Omaha, has kept records of the returns to owners of the farms his company manages. They now operate 1,481 farms, mostly in Iowa and Nebraska. Mr. Claassen recently cast up the 20-year records of 50 representative farms from his list. For all but 1931

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If you are planning to move within the next month please send us your new address *now*. Send both old and new addresses; send printed address label from your last copy. Also please notify your Postmaster. *This is important to you.* Allow five weeks for first copy to reach your new address.

New Super-Powered
CLOCK-RADIO
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YES, this newest G-E Clock-Radio is a "natural" for the farm! Automatically it wakes you to music . . . starts your coffee . . . turns on barn or chicken house lights . . . tunes in weather and market reports or a favorite radio program anytime. Even turns itself off after you go to sleep. Now with an extra tube, it has more power, brings in faraway stations with ease. Has new luminous pointer for tuning in the dark. G-E electric clock tells time in the dark, too! Smart, modern, cordovan plastic cabinet. See Model 535 at your General Electric dealer's, **$39.95***

General Electric Company, Electronics Park, Syracuse, New York

*Prices slightly higher West and South. Subject to change without notice

GENERAL ELECTRIC

FOR Spring

AND ALL YEAR 'ROUND

BARNYARD BETSY

RANGER'S CACKLING HEN THAT REALLY LAYS EGGS

$1.50

SUGGESTED RETAIL

When the side crank is turned Betsy gives a realistic "kut-kut-kut-kadawkit" and lays a colorful egg. She'll repeat the performance every time the crank is turned.

Made of beautifully lithographed metal, Barnyard Betsy is 7¾ inches long and 6¾ inches high. The metal basket opens up to provide a roomy container in which candy eggs may be stored. Five wooden eggs are packed with every chicken, individually boxed in a beautiful four-color carton.

PLACE YOUR ORDERS NOW FOR EARLY DELIVERY

RANGER STEEL PRODUCTS CORP.

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ring
in a
banner
year
with

ARRANBEE

featuring sensational new items for record sales this Easter

ARRANBEE is first with the finest again! Three sales-catching new dolls conceived and created with traditional ARRANBEE skill, imagination and quality workmanship—and designed to set a new high in Eastertime profits. You'll have to *see* them to know how appealing they are:

BOOTSIE—The adorable doll in a "bootie" blanket. Vinyl head, painted eyes, foam-stuffed latex body. Ribboned fleece bootie blanket with lacy trim sateen lining. IMMEDIATE DELIVERY!

JACK RABBIT—The cutest, cuddliest Easter Bunny ever! Vinyl head, painted eyes, stuffed cloth body. IMMEDIATE DELIVERY!

PEEPERS The beautiful new baby doll with vinyl head and moving eyes —READY SOON!

PLUS THE COMPLETE, TRADITIONALLY FINE ARRANBEE LINE OF "THE DOLLS THAT SELL ON SIGHT"

NANETTE—With DYNEL* and SARAN wonder wigs that can be washed, combed, curled and set

DREAM BABY—The newborn infant doll that is breaking sales records coast-to-coast

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PRESENTING THE *All New* **Remington** PERSONAL PORTABLE TYPEWRITER

NATIONALLY ADVERTISED

CHECK THESE *Exclusive* ALL NEW FEATURES

FINGER CONTOUR KEYS

One piece, ring free, glare free keys, scientifically designed to conform to the shape of your fingers. Easier, smoother, more positive typing

QUICK RIBBON CHANGER

The removal of the ribbon is accomplished by a simple, single action. To lock the new ribbon in place, merely set it in the carrier and begin typing — the action of the typebar locks the ribbon

REVOLUTIONARY DESIGNED CONTROL KEYS

For quicker control of mechanical action, the ribbon reverse lever, the ribbon color selector lever, the carriage release levers, the paper release lever and personal touch regulator have been scientifically located for convenience of operation.

POSITIVE MARGIN CONTROL

Conveniently set within easy reach of the hand. Positive control is maintained at all times. Margin stops remain firmly fixed.

FUNCTIONAL BEAUTY

No other typewriter can match its breathtaking beauty. The smooth sweep of the design and the restful soft tones of the non-glare two-tone gray finish are instantly eye-appealing. The deep blue green control keys and the pearl-gray typing keys meet with immediate acceptance.

NOW KEYSET TABULATOR SETS and CLEARS FROM KEYBOARD

Sets and clears tabulator with a flick of finger on normal typing level. Hands remain in typing position. No groping, no reaching, no fussing with back of machine.

All New Remington Personal Portable Typewriter

The pride of the Remington Rand Portable Typewriters with every new advance in engineering skill. A two-tone gray beauty, modern in design and color styling. It is color-engineered to minimize glare and to harmonize with any decorating scheme. A new high in ease of operation and precision. Accelerating typebars which gain momentum as they move from beginning to end of their stroke. **Self-Starter Paragraph Key.** A mere flick of the exclusive Self-Starter Paragraph Key instantly indents five spaces, takes all guess-work out of paragraphing. Accelerating type bars assure better printwork, crystal clear carbon copies and greater speed of typing. Standard 4-row, 84-character keyboard as on office machine. **Personal Touch** adjusts to the touch of the typist makes typing effortless, speedy with clear, legible results. Exclusive simplified ribbon changer with hinged top cover for easy access to ribbon spools and cleaning, plus new elliptical shift keys, roller bearing mounted carriage that speeds performance, complete with carrying case. Available in either pica or elite type face. Specify. Retail 82.50. Plus 5.15 Federal Excise Tax.

No. 12TRP3—Dealer's each, net **64.89**

(Plus 5.15 Federal Excise Tax)

NEWLY STYLED CARRYING CASE

A luggage type carrying case in harmonizing grey. Opens up to a perfectly flat table top surface. No rims or raised edges to hinder typing action. Included with Remington Personal Typewriter

Same as the All New Remington Personal typewriter listed directly above except is equipped with Hand set Tabulator Key instead of Self starting Paragraph Key Tabulator Key and Stops. Usually you will find this set-up only on standard office typewriters. It's a full set of tabulator stops that become invaluable when the typist is doing statistical work, billing, and listing. Available in either pica or elite. Specify. Retail 89.50. Plus 5.80 Fed. Tax. Complete with carrying case

No. 12TRP2TAS—Dealer's each, net..... **TABULATOR 69.50**

(Plus 5.80 Fed. Excise Tax)

ADDING MACHINE

UNDERWOOD LEADER ADDING MACHINE

TABULATOR MODEL

- Automatic Sub-Total
- Noise Reducing
- Handle Correction
- Plastic Case

This wonderful adding machine is light in weight, but is constructed for durability. It is featured with multiply-repeat key, non-add total key, non-add key correction paper release lever, and many more features. Paper roll holder is adjustable from 2½" to 4¾". Color is Underwood Fawn. Retail 110.00, plus 7.50 Federal Tax

No. 12TUP7100L. Dealer's, each net **90.75** Plus 7.50 F.E.T

- Finger-Flight Keyboard
- Non-Glare Key Tops
- Keyset Tabulator
- Carriage Release Lever

Made for easy operation and precision built. Has automatic and manual ribbon changer, carriage centralizing lock, color selecting lever; paper aligning scale; true finger form keys, accelerated type bar action, writing line scale; standard line finder, segment shift, cylinder scale pointer, and many more features. Comes complete with carrying case. Available in either pica or elite. (SPECIFY.)

Retail 89.50, plus 5.37 Federa Excise Tax

No. 12TUP895. Dealer's, each net **65.00** (Plus 5.37 F E T)

UNDERWOOD PORTABLE TYPEWRITER

UNDERWOOD CHAMPION PORTABLE TYPEWRITER

ORDER ITEMS ON THIS FILE FORM

GENERAL-AMERICAN DISTRIBUTORS

31 W. CERMAK ROAD, CHICAGO 16, ILLINOIS

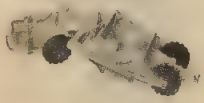
SEE PAGE 219 FOR OTHER ITEMS

Revell Toys

Caterpillar Earth Moving Equipment

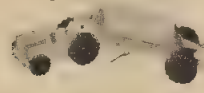
Accurate scale replicas of real earth moving equipment, a working miniature. Construction is of No. 440 Styrene sheet. Bright Caterpillar yellow and black color. Axles, steering mechanism and control levers of metal. Packaged in attractive multi-color boxes.

Scraper and Tractor



Stock No.	Mfr's. No.	Size In.	Lb Doz	Fact. List EACH
4H 6165	2552	12x3½x3	6	$1.00

Dump Wagon and Tractor



Stock No.	Mfr's. No.	Size In.	Lb Doz	Fact. List EACH
4H 6166	2553	12x3½x3	6	$1.00

Road Grader

Stock No.	Mfr's. No.	Size In.	Lb Doz	Fact. List EACH
4H 6167	2554	12x3½x3	6	$1.00

Two dozen in a carton.

Trio of Earth Moving Equipment

Consists of one each 2552 scraper, 2553 dump wagon, 2554 road grader.

Stock No.	Mfr's. No.	Lb Each	Fact. List EACH
4H 6168	2555	1½	$3.00

Twelve in a carton.

Master DeLuxe Circus

Large circus set for youngsters from 5 to 12 years. Set contains creative play toys of durable plastic. Set contains, elephant and blanket, horse, saddle and blanket, zebra, rider, clown, acrobat, girl acrobat, ringmaster, Indian chief, giraffe, lion, lioness, tiger, black panther, 2 metal trap frames, 2 panels, 4 posts, 3 ladders, 4 metal trap wires, 2 trap bars and 1 ring. Packaged to display animals and accessories in functional positions.

Stock No.	Mfr's. No.	Fact. List EACH
4H 6161	C90	$9.95

One fourth dozen sets in a carton.

Revell Toys

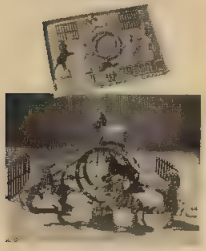
DeLuxe Circus

Set includes, 2 horses, 2 blankets, 2 saddles, 1 elephant, blanket, rider, clown, acrobat, girl, 2 metal trap frames, 2 plastic frames, 1 set, 4 corner posts, 4 metal trap wires, 1 see saw board, 1 large tub, 2 small tubs, 1 barrel, 2 ladders, 2 trapeze bars, 1 circus ring. Packaged to show animals and accessories in functional positions.

Stock No.	Mfr's. No.	Fact. List EACH
4H 6160	C30	$5.98

One-half dozen in a carton

Wild Animal Act

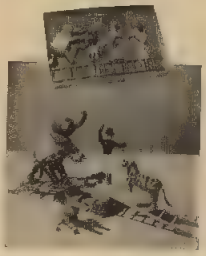


A complete line of wild action animals with authentic jungle colors and markings. Equipped with Revell any position, adjustable joints. Set contains: lion, lioness, tiger, leopard, black panther, elephant, 8 plastic cage sections, 9 additional realistic accessories. Animals and accessories displayed in functional positions.

Stock No.	Mfr's. No.	Fact. List EACH
4H 6120	C32	$4.98

One-half dozen in a carton.

Animal Act



Set contains: 3 elephants, trainer, rider and equipment to round out full action set. Displayed in functional position

Stock No.	Mfr's. No.	Fact. List EACH
4H 6158	C30	$2.98

One dozen in a carton

Junior Circus Set

Set includes elephant, clown, tub, see saw and ladders in functional positions. Displayed

Stock No.	Mfr's. No	Fact. List EACH
4H 6157	C20	$2.00

One dozen in a carton

Durlan Automatic
20-30 Ammunition

Stock No	Rounds In Pkg	Fact. List PKG
4H 6156	40	$0.39

One dozen packages in a carton

Quality... Comfort... Seaworthiness

THE RICHARDSONS *for* '51

▶ Whether your boating needs call for the extra size and roominess of the "35" Sedan Cruiser or the compact comfort of the "27" Little Giant you can find no better values than these two new Richardsons.

The "35"...Flagship of the Richardson Fleet, shown above, is an outstanding craft. Her big, comfortable deckhouse, with controls on the starboard side for better visibility, her full-length hanging locker and her ample lounging space and convertible sleeping facilities, are a few of the features that spell *quality*. From afterdeck to forepeak she is designed for graceful living afloat. Her round bilge construction and traditional Richardson quality give her seaworthy characteristics that you would expect only from a much larger craft. Twin power and reduction drive are standard.

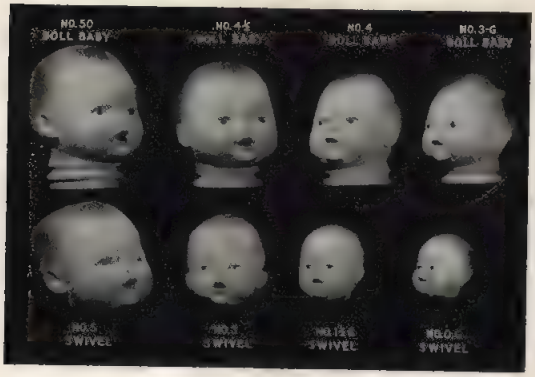
The low, sleek lines of the new "27" Sedan Cruiser, shown below, emphasize its ruggedness and maneuverability. The Little Giant's design makes skillful use of every square inch of her sturdy hull. She has sleeping accommodations for four and ample galley facilities for extended cruising. There is a large open cockpit for fishing or sunning. Low initial cost and economy of operation make her an ideal boat where budget dictates a lower investment. Available in a Sport Cruiser model with solid or folding top.

These two new Richardsons, together with the new "32" Sedan and Sport Cruisers, make the Richardson Fleet for '51 the best dollar for dollar values in Richardson's long history of building outstanding cruisers. See your Richardson dealer now for early spring delivery or write

RICHARDSON *Cruisers of Tomorrow*

RICHARDSON BOAT CO., INC., NORTH TONAWANDA, N. Y.

RICHLEY LATEX CORP. *Announces*
VINYL PARTS *for the Modern Doll*



Made of . . .
VINYLITE
PLASTICS

As pioneers in the development and manufacture of Vinyl parts for Dolls, we are now operating one of the best equipped plants in America for producing the finest quality

HEADS ARMS *and* LEGS

Twenty-nine years' experience in serving the Doll Trade is your assurance of efficient, dependable service.

•

THE BEST IN

LATEX DOLL PARTS

We will continue to supply Doll Manufacturers with Latex Parts made to our high standards of quality during the coming year, in conformance with government regulations.

Phone or write for samples and a personal interview with our Messrs. D. Richman and Irwin Nussbaum

RICHLEY LATEX CORP.

644 BROADWAY — **D. RICHMAN,** *President* **Phone: GRamercy 7-0970-1** — **NEW YORK, N. Y.**

Toni Mendez

New Comic Strip Merchandise Will Be Shown at Toy Fair

Toni Mendez, Inc , 40 West 57th Street, New York City, reports that "The Tom Corbitt Space Cadet," that phenomenal television show, sponsored by The Kellogg Company, is now available for licensing in the toy field. One of the first licensees, Air Champ Mfg Co., Inc., will present a game based on the activities called Tom Corbitt's space cadet, "Operation Rocket," during the current Toy Fair.

Miss Mendez also advises that the Etone Company has been licensed to manufacture dolls based on some of the principal characters in the popular comic strip, "Nancy" by Ernie Bushmiller to be shown at the Toy Fair for the first time. Other "Nancy" merchandise is the Ra-Gold Mfg Company's Nancy "Little Seamstress" Sewing Set and Hat Kit. "Nancy" is released by United Features and is now being packaged for television by the American Broadcasting Company

This enterprising licensing office also reports that the Chicago Tribune Syndicate's comic strip release "Moon Mullins" will be represented at the Toy Fair by a line of masks of all of the characters in the strip, which are produced by Topstone Rubber Company. In addition, Capitol Doll will present their new Kayo doll for the first time, during this annual showing

"Mark Trail," a popular radio show, sponsored by The Kellogg Company over 521 stations in the United States and Canada, is now available for licensing by this same organization. This is a Post-Hall Syndicate release

Still another comic group has been added to the activities of this same office. It is the new N. E. A. combine of the following comic strips and panels. "Out Our Way"; "Major Hoople"; "Alley Oop"; "Freckles and His Pals", "Boots and Her Buddies"; "Captain Easy"; "Priscilla's Pop"; and "Vic Flint." This outstanding selection represents a potential of 31,000,000 readers and any or all are now available for licensing in the toy field.

Spring-Summer Promotion by Parade of Toys Now Over-Subscribed

Black and white reproduction of the multi-colored spring-summer catalog.

Parade of Toys gets off to an auspicious start in 1951 with new prestige, under a new banner March of Toys; in new quarters—175 Fifth Avenue, New York, N. Y.; with new promotions—the publication of a spring-summer flyer and a Christmas consumer toy book; and new members whose names will be made available to the trade after Toy Fair

In an interesting, exclusive interview Gail Talbot, Director and Executive Secretary, discussed the tremendous strides made by Parade of Toys in the few short months since the inception and successful completion of its initial dealer-consumer venture, 1950's Parade of Toys.

"Parade of Toys was successful beyond our expectations," said Miss Talbot. She added, "As a result of the nation-wide acclaim with which it was received by manufacturers, dealers, consumers and non-participating jobbers, our members at a post-publication meeting held in Pittsburgh in November, decided to publish two promotions in 1951. Numerous requests to continue the unique and profitable manufacturer-jobber-dealer relationship now firmly established, were the forerunners of future policy and the decision to strengthen this relationship.

"The first step in this direction is the publication of our 1951 spring-summer promotion—March of Toys. There will be a two-fold flyer in full color, approximately 8½x11, featuring 20 to 25 special spring-summer "leaders" representative of the best in this year's offerings It will be off the press and ready for distribution April 15. Pre-publication dealer requests guarantee a minimum circulation of 300,000, already over-subscribed, with every indication of a much larger distribution.

"The Christmas consumer toy book will be similar to that published in 1950 but considerably expanded. The addition of new members and advance subscriptions already on hand from dealers, bid fair to make this a banner promotion and to more than double 1950's distribution with an anticipated circulation of 1,500,000 books

"Our member wholesalers have profited considerably from the general exchange of merchandising and trade information at our meetings.

"The personnel of Parade of Toys is being expanded to handle the increased volume of business and the growing demands of an active, cooperative organization

"Our members, Ed Schechter of Ay-Won Toy & Novelty Corporation, New York, Len Brown of Baltimore Products Company, Baltimore; Al Zamler of Consolidated Athletic Supply, Detroit; Sam Dubin of General Novelty Company, Philadelphia; Dave Nesson of Nesson Sales Company, Norfolk; Max Goldstein of Rochester Stationery Co., Rochester and Ben Shrager of Shrager Brothers Company, Pittsburgh, would like to thank all those who participated with us in our 1950 promotion, for their wonderful support and cooperation, their many complimentary letters and personal expressions of good will, and the many others who have joined with us since to make Parade of Toys a mutually profitable, highly regarded entity for good in the toy industry."

Parade of Toys welcomes all inquiries at their new quarters, 175 Fifth Avenue, New York 10, N. Y.

River-Runt Baits and Weedless Hooks

Heddon
"MIDGIT DIGIT RIVER-RUNT-SPOOK"

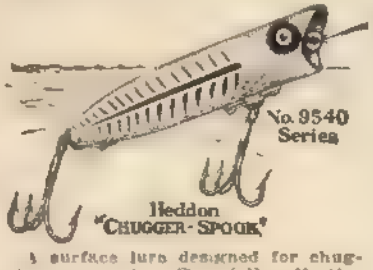
The famous "Midgit Digit" in plastic. This lure is the smallest of the River-Runt family. Ideal for walleyes, bass ... Colors SD-L-P-RH-XRY-XRS-XRW-XBW. Dealer 9.72.

No. 18R86. Less ... net
Per dozen 9.52

Heddon "River-Runt Spook"
(Floating)

Floats when at rest. When retrieved dives with a wiggling action to a depth of a foot or two. Ideal for crystal-clear water. Weight ½ ounce. Length 3 inches. Colors SD-M-RH-L-XRS-XR... XBW-XGP-XBW. Dealer 10.80.

No. 18R83. Less 2% net.
Per dozen 9.52



Heddon
"CHUGGER-SPOOK"

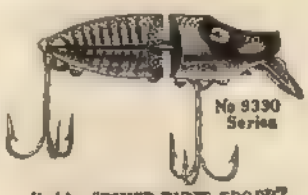
A surface lure designed for chugging or popping. Especially effective for bass around lily pads. Weight ½ ounce. Length 3 inches. Colors L-RH-XRY-XRS-XRW-XBW. Dealer 9.72.

No. 18R84. Less 2% net.
Per dozen 9.52

Heddon
"MIDGET RIVER-RUNT-SPOOK"

A shade larger than the "Midgit Digit". Sinks slowly and has excellent action. Weight ⅝ ounce. Length 2¾ inches. Colors L-P-M-PB ... RH-SD-XBW-XRG-XRS-XRW-XRY. Dealer 9.72.

No. 18R81. Less 2% net.
Per dozen 9.52



Heddon "RIVER-RUNT-SPOOK"
(Jointed Sinking)

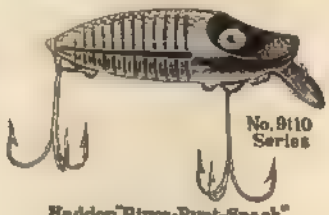
Similar to River Runt Spooks, only jointed. Has lively action at slow rate of ... Colors SD-PH-M-L-RH-L-XRS-XR... XBW-XGP-XBW. Dealer 10.80.

No. 18R111. Less 2 ... net
Per dozen 10.58

Heddon
"GO-DEEPER-RUNT"

Especially designed for deep feeding fish such as walleyes. Goes deep with a wiggle and stays deep due to a large lip. Weight ⅝ ounce. Length 3⅛ inches. Colors SD-M-RB-L-P-RH-XBW ... XRY XRS XRW. Dealer 10.80.

No. 18R90. Less 2% net.
Per dozen 10.58



Heddon "River-Runt-Spook"
(Sinking)

The original transparent River-Runt Spook. Slightly larger than the midget. Sinks slowly and has fast wiggling action. Weight ½ ounce. Length 3½ inches. Colors L-M-P-RH-RB-XRY-SD-XRG-XRS-XRW-XBW. D... Dealer ...

No. 18R82. Less 2% net.
... 9.52

Heddon "CRAZY-CRAWLER" Small Size

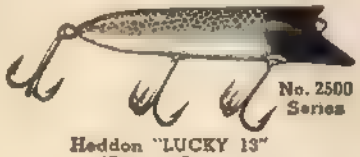
The tops in top-water baits! A surface bait with a swimming crawling action that really gets the big ones. Weight ⅝ ounce. Length 2½ inches. Colors BP-GM-BWH-YRH-XRS-XRW. Dealer 10.80.

No. 18R87. Less 2% net
Per dozen 10.58

Heddon
"PUNKINSEED"

A sinking bait which travels approximately 2 feet under the surface when retrieved. Attracts bass, walleyes, and pike when other lures fail. Weight ⅝ ounce. Length 2¼ inches. Colors SD-CRA-SUN-BGL. Dealer 9.72.

No. 18R85. Less 2% net.
Per dozen 9.52



Heddon "LUCKY 13"
(Floating-Diving)

A floating-diving bait that can be used also as a surface bait. Perfect "chugging" action when jerked, lifelike action on the retrieve. Selected cedar body. Weight ⅝ oz. Length 4". Colors RH-L-JRH. Dealer 9.72.

No. 18R113. Less 2% net Per doz.... 9.52

IMPORTANT

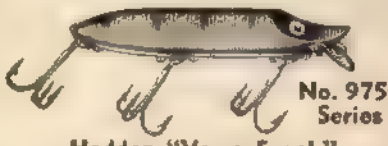
Below are the standard Heddon River Runt colors. When ordering these baits the designation of the color desired is necessary. For example: If ordering the Pearl and Black Bait in Surface color, it would read as follows: 18R83 S PN

Color	Designation
Rainbow	RB
White Body, Red Head	RH
Yellow Perch Scale	L
Pike Scale	M
Silver Scale	P
Scale	SD
Yellow Shore Minnow	XRY
Green Shore Minnow	XRG
Silver Shore Minnow	XRS
Black & White Shore Minnow	XBW
Red & White Shore Minnow	XRW
Crappie	CRA
Sunfish	SUN
Bluegill	BGL
Bullfrog	BF
Frog Spoon	GM
Natural Crab	NC
Pearl and Black Shore Minnow	XBP

Heddon "FLAPTAIL-MUSKY VAMP"
Makes a Lively Surface Commotion

The revolving "flap" or tail creates a commotion different from all other lures. Excellent for the larger saltwater fish as well as muskellunge. Selected cedar body, strongest construction. Weight 2¾ oz., length 6¾". Two 5/0 treble hooks. Colors SD-RH-PBH-PAS. Dealer 14.40.

No. 18R121. Less 2% net. Per dozen ..14 12



Heddon "Vamp Spook"
(Floating - Diving)

A famous floating-diving lure. Floats when at rest, dives and travels under water on the retrieve. Excellent for trolling. Weight ⅝ oz., length 4¼". Colors M-L-RH-XRY-XRS-XBW. Dealer 9.72.

No. 18R120. Less 2% net. Per doz.... 9.52

Heddon Jointed "Go Deeper"
"River Runt Spook"

Slow sinking deep-diving, jointed lure with snake-like, crawling action. Ideal for deep water trolling. Length 4¼", weight ⅝ oz. Colors: RH-XRY. Dealer 10.80.

No. 18R89. Less 2% net. Per dozen.... 10.58

Heddon "GO DEEPER CRAB"
A Floating, Deep Diving Bait

Trolling or Casting Lure designed for deep water. Floats high when at rest, yet retrieves deep. Length 3½", weight ½ oz. Colors RH-NC. Dealer 10.80.

No. 18R88. Less 2% net. Per dozen 10.58

Heddon "Magical Spook, Jr."
A Surface Bait

Small size flap tail with lifelike action due to fluttering spoon tail. Easy bait to use because it works itself. Length 3", weight ½ oz. Colors: RH-L. Dealer 9.72.

No. 18R122. Less 2% net. Per doz. .. 9.52

ROBERTA DOLLS

No. 854

A 19 inch Doll with wig. Sleepy eye, Mama Doll Latex arms and legs, Stuffed Body. An outstanding doll for

$50.00 Doz.

No. 1716

16 inch All Plastic Doll. Saran wig that can be washed, shampooed and set. Included is a package of dream curlers. An outstanding doll to Retail for as low as $7.95.

$64.00 Doz.

No. 4503

17 inch Sleepy eye, Mama Doll with Latex arms and legs. Very attractively dressed.

$40.00 Doz.

No. 4005

22 inch Doll, Sleepy eye, Latex arms and legs. This is a beautifully dressed Mama Doll.

$50.00 Doz.

SEE US FOR PROMOTIONAL DOLLS AND

SEE OUR DISPLAY OF OUTSTANDING DOLL NUMBERS

WING SHOT*

A HIT for SKILL and ENTERTAINMENT

Little hunters eagerly learn to lead flying birds with WING-SHOT. Big hunters, too, like to try their skill with this brand-new toy. It is perfectly safe as both ball and target slide on retaining wires.

The only toy that accurately simulates wingshooting or skeet.

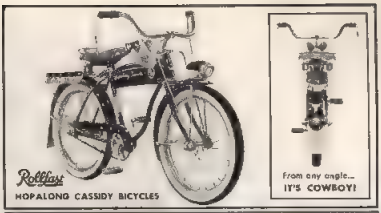
Liberal discounts plus the sales appeal of this action-packed toy mean good profits for you.

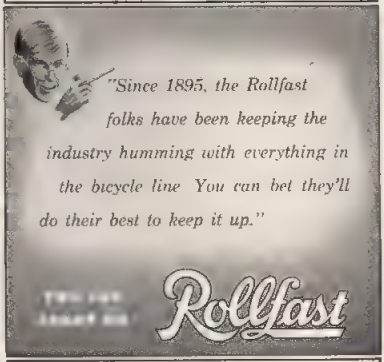
* Patent Pending

TRI-PAK Machinery Service, Inc.

Write today for complete information

HARLINGEN, TEXAS




"Since 1895, the Rollfast folks have been keeping the industry humming with everything in the bicycle line. You can bet they'll do their best to keep it up."
Rollfast

Put Your Wig Problems Up To Us!

We are ready to supply you with a wide selection of

SARAN-MOHAIR
WOOL—HUMAN HAIR—CURLS

DOLL WIGS

as well as a wide range of

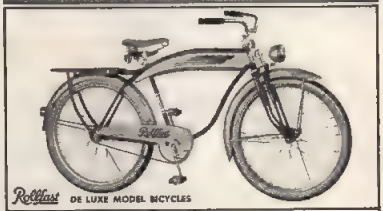
- SUPPLIES -

Our designers will be glad to create special coiffures that will further enhance the beauty of your dolls.

WRITE FOR DETAILS AND PRICES

BEN-WIG COMPANY

810 Broadway • AL 4-1327 • New York, N. Y.



The "Comfy-Carriage"

O. W. Siebert Develops 3-in-One Carriage

The O. W. Siebert Company of Gardner, Mass., proudly announces what it terms "a three-in-one boon" to the modern home maker in the "Comfy-Carriage."

The carriage is simple in design and smart in appearance. The body of the carriage just lifts out of the wheel-frame and becomes a bassinette or car-crib. Easily portable, light in weight, and luxuriously lined, it makes a cozy bed for the nursery (comes in four color combinations) and yet makes baby feel right at home while traveling. The wheel-frame folds into a compact unit, so that, in reality, it is easy to take the complete "Comfy-Carriage" combination on trips.

The carriage has a fully padded rail, heavy quilted sides of durable rubber treated cloth. It is lined front and rear, has a rubber-cloth bottom and heavy padded cushion. A four position back keeps baby happier for longer. The hood snaps on and off. The wheel-frame features a three position pusher to accommodate mothers and fathers of all heights.

The firm states, "The three-in-one 'Comfy-Carriage' was especially prepared for families where space is at a premium, but it has received an enthusiastic response from mothers because it is so convenient not to have to move a sleeping youngster from carriage to bassinette, or car-crib. Both manufacturers and psychologists feel that the innovation of the 'Comfy-Carriage' helps to keep young babies feeling secure and comfortable, without baffling changes."

The three-way "Comfy Carriage" is no higher in price than a reasonable carriage alone and is made by the O. W. Siebert Company of Gardner, Mass.

LEE PELUNIS HEADS VALENTINE DOLLS INC.

Lee M. Pelunis has organized a new doll firm Valentine Dolls Inc., located in New York, for which he is also acting as sales representative in association with Fred Gardel. Mr. Pelunis is well-known in the doll field having represented one of the leading doll manufacturers.

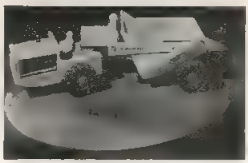
In presenting their initial line of dolls, Valentine Dolls Inc. are featuring popular-priced plastic and vinyl dolls consisting of babies, toddlers and girls. Special attention has been paid to a new styling technique which promises to add extra value and appeal to the entire line. Showrooms are located in Room 207 in the 200 Fifth Avenue building.

Lee Pelunis

NY-LINT TOOL & MFG. CO. OFFERS NEW SCALE MODEL TOYS

R. E. Klint, sales manager, Ny-Lint Tool & Mfg. Co. 1823 Sixteenth Avenue, Rockford, Ill. states that their line of mechanical and scale model toys has been enlarged for 1951 with the addition of two realistic new numbers.

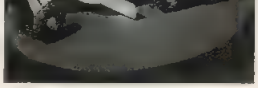
The number 1300 Tournarocker is a faithful scale model of the real Tourna-



The Tournarocker

rocker designed and manufactured by R. G. LeTourneau, Inc. of Peoria, Ill. It has been approved and authorized by LeTourneau and has an exact reproduction of the distinctive action of the real life machine including hoist on big rear-dump hopper and two-way pivot on connecting pin. It is described as an unusually strong and flexible toy for real hauling and dumping just like the big machines that are used for heavy road building work. 18" long 5½" wide, 6½" high, it is made of heavy gauge steel and comes individually packed to retail at $6.95.

Ny-Lint's number 1400 Roadgrader does real scraping and grading. Described as an exceptionally strong toy with fascinating motions, the front wheels are steerable and all axles are individually pivoted to follow irregularities of the grain exactly



The Roadgrader

like the real machines seen on the highways and in the fields. The scraper blade has a positive three-way adjustment and can be raised or lowered, tilted in any way and swung either left or right. Of all steel, heavy duty construction it is 18" long, 8" wide and 9¼" high. It comes individually packed and can be retailed profitably for $7.95.

Mr. Klint says that the Ny-Lint Tool & Mfg. Co. is just putting the finishing touches to a new addition to their plant. Scheduled to be in operation by March 15th, this new addition comprises approximately 20,000 square feet all on one floor level and will enable the firm to double their manufacturing capacity.

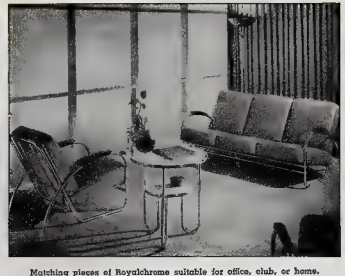
Royalchrome
DISTINCTIVE FURNITURE

All metal construction with exposed metal parts in Royalchrome quality plating. Heavy Nickel-plating on all concealed parts. All covering of Super-Tuftex leatherette which is a coated Vinyl plastic, fire resistant and will not crack, peel or bubble under ordinary use. All Prices, F.O.B. Factory. Allow 2 to 4 weeks for delivery. Specify color. All prices are list. Write for confidential dealer discount on this page.

Tuftex upholstery in the following colors: Sea Green, Spring Green, Bright Red, Light Blue, Dark Blue, Tobacco Brown, or British Tan.

Arm Chair. Royalchrome, all metal construction with comfortable, Flex-spring seat and Super-Tuftex covering. Seat size: 17½" wide, and 18" deep. Padded back to 14½" wide and 10½" high. Ship. wt. 28 lbs.
177F798.....EACH **$27.50**

Side Chair. Smart, four legged chair with padded seat and back, both reinforced with metal plates. Seat size 16" wide, and 15" deep. Size of back. 14½x10½". Ship. wt. 20 lbs
177F18.....EACH **$16.90**



Matching pieces of Royalchrome suitable for office, club, or home.

Lounge Chair. Comfortable, man-sized lounge chair, 28" wide and 29½" deep. Ship. wt. 56 lbs.
177F470—Specify color .....EACH **$52.75**

Settee for Three. Popular favorite of Royalchrome installations. Size: 70x33½" deep. Ship. wt. 125 lbs.
177F474.....EACH **$135.15**

Settee for Two. (Not shown.) 48x33½". Ship. wt. 96 lbs.
177F472.....EACH **$94.85**

Occasional Table. Handsome, modern design, double tier table. Formica top, stainless steel bond. Size 24" high, 24" dia.
177F215B—Ship. wt. 28 lbs.....EACH **$31.55**

Executive Arm Chair. Flawless adjustment and rugged durability. Seat size: 20½x21". Metal frame finished in Grey. For leatherette upholstery colors, see list above.
177F746—Ship. wt. 57 lbs. EACH **$71.75**

As above. Without arms.
177F743—Ship. wt. 55 lbs. EACH **$60.95**

Secretarial Chair. A deluxe posture chair. Ship. wt. 45 lbs
177F825 .....EACH **$42.35**

Arm Chair. Flex-spring seat 18" wide and 19" deep. Ample, padded back 18" wide and 19" high. Black wood arm rests and self-locking floor glides. **Also available in gauge.** Ship. wt. 30 lbs.
177F377.....EACH **$30.20**

Arm Chair. Deluxe air cushion arm chair in smooth, modern design. Seat size: 20x18". Ship. wt. 31 lbs.
177F810 .....EACH **$37.90**

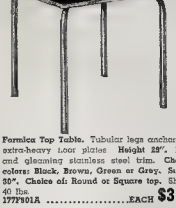
As above: Similar, with Flex-spring seat.
177F811 Ship wt. 24 lbs. EACH **$32.35**

Stool. Non-tip legs with self-locking floor glides. 30" high with 17" dia. footrest. 11½" from the floor. Ship. wt. 20 lbs.
177F115—30".....EACH **$17.95**

PRICES ON THIS PAGE ARE LIST—WRITE FOR DEALER DISCOUNT

SIDE CHAIR

Royalchrome, square tube furniture built for 24 hour a day duty. **Flex-spring seat 16" wide and 15" deep.** All-purpose, tailored chair. Frames finished in Grey. **For color desired in leatherette upholstery, see list at top of page.** Ship. wt. 16 lbs. **Be sure to specify color.**
177F723 .....EACH **$17.50**



Formica Top Table. Tubular legs anchored into extra-heavy floor plates. **Height 29".** Lasting and gleaming stainless steel trim. **Choice of colors: Black, Brown, Green or Grey. Size: 30x 30". Choice of: Round or Square top.** Sh.p. wt. 40 lbs.
177F301A .....EACH **$31.60**

Size: 24x42". Ship. wt. 34 lbs.
177F301B .....EACH **$33.95**

Size: 30x48". Ship. wt. 50 lbs.
177F301C .....EACH **$53.50**

SPECIFY COLORS

Settee. An oversize settee for two with Flex-spring seat 40" wide and 20" deep. Back is 21" high. **Overall size: 48x24" deep.** Self-locking floor glides. Shp. wt. 68 lbs.
177F1103.....EACH **$57.75**

As above: Single chair to match.
177F1100—Ship. wt. 34 lbs.....EACH $31.55

Bass Baits

Super Duper Bait

An ingenious reverse action bait creating a fish eye enticing riffle a real fish getter. All sizes equipped with treble hooks and snap line fastener, except 2V895 which has single hook. Polished brass with red finish.

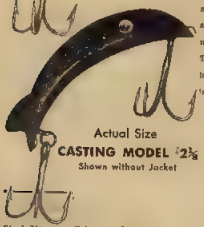
2V896 to 2V899 | 2V894 | 2V895

Stock No.	Mfr's. No.	Size	Size In.	Fact. List EACH
2V 896	500	0	1	$0.50
2V 897	501	1	1¼	.65
2V 898	502	2	1½	.65
2V 899	503	3	1⅝	.85
2V 894	506	6	1¾	1.00
2V 895	516	16	3½	1.25

Each packed in a plastic capped tube.

Casting Model—Russelure

Actual Size
CASTING MODEL #2½
Shown with All-Metal Color Jacket attached



Actual Size
CASTING MODEL #2½
Shown without Jacket

Casting Model

Primarily designed for casting and spinning, although they may be used as a heavier trolling lure if desired. All metal construction makes them very durable. They come in tarnish-resisting aluminite finishes assuring permanent colors.

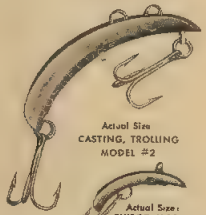
Stock No.	Color	Lgth. In	Oz. Each	Fact. List EACH
2V 1500	Silver	2⅛	3/8	$1.20
2V 1501	Green	2⅛	3/8	1.20
2V 1502	Gold	2⅛	3/8	1.20
2V 1503	Red	2⅛	3/8	1.20
2V 1504	Orange	2⅛	3/8	1.20
2V 1505	Black	2⅛	3/8	1.20
2V 1509	Silver	2⅝	1/2	1.20
2V 1510	Green	2⅝	1/2	1.20
2V 1511	Gold	2⅝	1/2	1.20
2V 1512	Red	2⅝	1/2	1.20
2V 1513	Orange	2⅝	1/2	1.20
2V 1514	Black	2⅝	1/2	1.20

Snap On Jacket

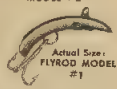
Russelure Snap On Jacket set offers six different color combinations with one plug. Six plugs and one set of jackets make possible all the advantages of 36 different plugs. Set consists of one each silver, green, gold red, orange and black snap-on jacket.

Stock No.	Model	Lgth. In.	Dia. Each	Fact. List SET
2V 1507	2⅛	1⅝	¼	$1.50
2V 1516	2⅝	2	¼	1.50

Russelure



Actual Size
CASTING, TROLLING
MODEL #2



Actual Size:
FLYROD MODEL
#1

For Trout, Bass and All Game Fish

Smallest all metal adjustable acting fly rod lure available. Can be used either as a shallow or deep swimming lure. Adjustable action according to fishing conditions and type of fish desired. Can be used with any type hook of any practical size desired. Because they're of all metal construction they are very durable. They come in beautiful aluminite finishes, assuring permanent lustrous colors.

Fly Rod Model

Stock No.	Size	Color	Fact. List EACH
2V 1475	1	Silver	$0.75
2V 1476	1	Gold	.75
2V 1477	1	Orange	.75
2V 1478	1	Green	.75
2V 1479	1	Black	.75
2V 1480	1	Red	.75
2V 1481	1⅛	Silver	.75
2V 1482	1⅛	Gold	.75
2V 1483	1⅛	Orange	.75
2V 1484	1⅛	Green	.75
2V 1485	1⅛	Black	.75
2V 1486	1⅛	Red	.75
2V 1487	1⅜	Silver	.75
2V 1488	1⅜	Gold	.75
2V 1489	1⅜	Orange	.75
2V 1490	1⅜	Green	.75
2V 1491	1½	Black	.75
2V 1492	1½	Red	.75

Casting and Trolling Model

Stock No.	Size	Color	Fact. List EACH
2V 1493	2	Silver	$1.00
2V 1494	2	Gold	1.00
2V 1495	2	Orange	1.00
2V 1496	2	Green	1.00
2V 1497	2	Black	1.00
2V 1498	2	Red	1.00

Abalone Minnow With Treble Hook

Sportsmen's

Made from natural red abalone shell. Mounted on convex side of a solid nickel back, highly polished.

Stock No.	Mfr's. No.	Lgth. In.	Wd. In.	Approx. Oz. Ea.	Hook Size	Fact. List EACH
2V 1366	1	1½	5/8	½	12	$0.50
2V 1367	2	2	¾	¾	8	.75
2V 1368	3	2½	½	1	5	1.00

Each lure in a box.

Bass Baits

Flat Fish

The flat fish is a patented game fish lure of new and distinct design, created to produce the maximum possible luring action on a slow retrieve and is combined with a new hooking arrangement. It was necessary to create this improved hooking principle in order to insure a larger percentage of hooked strikes on fish taking a slow moving lure. The action, hooking, color and method are the four factors that make this a successful artificial minnow

Flat Fish Expert Jr.

F4—Fly Rod Model

Length 1½-in.—Weight ⅛ oz.—No. 12 Hooks

Stock No.	Mfr's. No.	Color	Fact. List EACH
2V 793	F4-LO	Light Orange	$1 10
2V 794	F4-BL	Blk , Orange Spots	1 10
2V 795	F4-FR	Frog	1 10
2V 796	F4-O	Orange	1 10
2V 797	F4-SI	Silver	1 10
2V 798	F4-WR	Wh & Red	1 10
2V 799	F4-Y	Yellow	1 10

F5—Fly Rod Model

Length 1¾-in.—Weight ¼ oz.—No. 12 Hooks

Stock No.	Mfr's. No.	Color	Fact. List EACH
2V 818	F5-LO	Light Orange	$1 10
2V 819	F5-BL	Black	1 10
2V 820	F5-FR	Frog	1 10
2V 821	F5-O	Orange	1 10
2V 822	F5-SI	Silver	1 10
2V 823	F5-WR	Wh. & Red	1 10
2V 824	F5-Y	Yellow	1 10

F6—Fly Rod Model

Length 2-in.—Weight ⅜ oz.—No. 12 Hooks

Stock No.	Mfr's. No.	Color	Fact. List EACH
2V 811	F6-SI	Silver	$1 10
2V 812	F6-FR	Green Frog	1 10
2V 813	F6-O	Orange	1 10
2V 814	F6-W	White	1 10
2V 815	F6-Y	Yellow	1 10
2V 816	F6-BL	Black, Orange Spots	1 10
2V 817	F6-LO	Light Orange	1 10

Each lure in a box

Flat Fish Expert Jr.

F7—Fly Rod Model

Length 2¼-in.—Weight ⅓ oz.— No. 12 Hooks

Stock No	Mfr's. No.	Color	Fact. List EACH
2V 825	F7-SI	Silver	$1 10
2V 826	F7-FR	Green Frog	1 10
2V 827	F7-O	Orange	1 10
2V 828	F7-W	White	1 10
2V 829	F7-Y	Yellow	1 10
2V 830	F7-BL	Black	1 10
2V 831	F7-LO	Light Orange	1 10

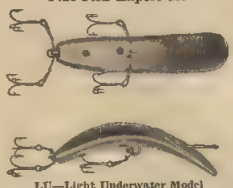
Each lure in a box

2½ inches in length, 3-gang hooking for states restricting the number of hooks to three. Expert Jr models are used either for casting or trolling and are the best sizes to use on spinning outfits The size is between the fly and standard models and a favorite of the Angler after bass, trout and other fish hard to entice

Stock No.	Mfr's. No.	Color	Fact. List EACH
2V 800	X4-O	Orange	$1 35
2V 801	X4-Y	Yellow	1 35
2V 802	X4-FR	Green Frog Imitation.	1 35
2V 803	X4-BL	Black, Orange Spots	1 35
2V 804	X4-W	White	1 35
2V 805	X4-OB	Orange, Red Head, Black Top	1 35
2V 806	X4-YB	Yellow, Red Head, Black Top	1 35

Each lure in a box

Flat Fish Expert Jr.



LU—Light Underwater Model

Length 3½-in.—Weight ⅜ oz.—No. 9 Hooks

Stock No.	Fact. No.	Color	Fact. List EACH
2V 784	LU-FR	Green Frog	$1 35
2V 785	LU-O	Orange	1 35
2V 786	LU-OB	Orange, R.H , Blk. Top	1 35
2V 788	LU-Y	Yellow	1 35
2V 789	LU-YB	Yellow, R H , Blk Top	1 35

Each lure in a box

Bomber Fishing Lures

Floating lure yet runs deeper than most sinking type 'MAS Attains depths on normal cast over 10 feet over 20 feet with long line in trolling Weight ¾ ounces

Stock No.	Mfr's. No.	Color	Fact. List EACH
2V 875	603	Grey Scale	$1 10
2V 876	604	Red Head	1 10
2V 877	606	White, Black Ribs	1 10
2V 878	607	Yellow Perch	1 10
2V 879	612	Orange, Black Ribs	1 10
2V 880	618	Red Side	1 10
2V 881	605	Green Perch	1 10
2V 882	611	Frog	1 10
2V 883	613	Brown Shad	1 10
2V 884	614	Black, White Ribs	1 10

One in a box, one dozen in a carton.

Fly Ike Lure Assortment

Kautzky's

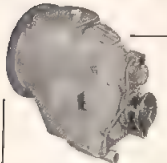
The fly ike has an irresistible fish getting action Its dynamite in play size For trout bass and pan fish Assortment contains twelve lures Two each in a plastic display mounted on an easel back display card Two each green silver red-white orange brown and black

Stock No.	Mfr's. No.	Fact. List ASSORTMENT
2V 780	00	$13 20

Twelve on a colorful display card

"The CAPITOL" YC

REVERSE and REDUCTION GEAR*



For engines from 150 h.p. at 1500 r.p.m. to 300 h.p. at 2100 r.p.m.

Only popular priced high quality gear giving you Wet Clutch System Independent Lubrication . . . Roller and Ball Bearings . . . and numerous other features. Choose CAPITOL Reverse and Reduction Gear for smooth dependable control

*Watch for new hydraulically controlled "YC".

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CAPITOL MARINE GEARS
At the
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LONG DEPENDABLE SERVICE BUILT INTO EVERY CAPITOL GEAR

For over 40 years, CAPITOL has maintained for you an extremely high standard of quality, workmanship, and engineering design. Every gear has more built-in features to give you instant response, smooth dependable control, longer service under severe or ordinary operating conditions. Those who want the best choose CAPITOL Gears are moderately priced and give more value per dollar of investment.

CHECK THESE CAPITOL GEAR FEATURES

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- ROLLER AND BALL BEARINGS
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- EASY ACCESSIBILITY

WRITE TODAY for complete specifications on a CAPITOL GEAR for your requirements. You'll be glad you did!

"The CAPITOL" EF

DIRECT DRIVE and REVERSE GEAR

(Also Reduction and Reverse Gear)

For FORD 6, V-8, or MERCURY ENGINES

Easy to install and service the CAPITOL EF Gear is the shortest direct drive unit made for FORD engines. The only popular priced gear to provide wet clutch and independent pressure lubrication for fast response and longer transmission life. 1½ : 1 or 2 : 1 Reduction gear may be added at any later date without any machining. The CAPITOL EF Gear is the best you can buy!

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WELIN SEA GYPSY

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Sadoff Boats

Sadoff Skyrider Utiliter Cabin Cruiser for outboard motor $595 with any motor

Sadoff Boats are high quality, inexpensive craft designed and built part-cularly for the modest purse. There are fishing, utility shifter and runabout models 14, 15 and 18 ft. for either outboard or inboard power with speeds up to 35 m.p.h. Get the best out of boating with a power boat by Sadoff first. Write today for illustrated literature.

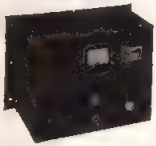
MERCURY OUTBOARD DEALER

SADOFF BOAT BUILDER

MERRITT ISLAND ANDREWS, TEXAS

Motor Boating AD 75 Hayes 12-6

A NEW AND BETTER WAY TO LIGHT YOUR BOAT



THE STICKELL MARINE CONVERTER AND BATTERY CHARGER

Use 110 volt A.C. on your present boat lighting system. (6, 12 or 32 volt) where shore power is available. It is not necessary to rewire for 110 volts or change boat lights.

At the same time it keeps your batteries fully charged and prolongs their life.

N. Y. Boat Show, Space 87, 3rd floor.

Write or wire for full information.

STICKELL-WHEELER YACHT COMPANY

SHOWROOMS: 1616 MT. ROYAL AVENUE, BALTIMORE 17, MD.
TELEPHONE: LAFAYETTE 7150

Owners Say:
"IT'S THE BEST BOAT ON THE MARKET UNDER $350.00"
Compare with Any Runabout at Any Price
SMART FAST RUGGED
The A.N.A. only $225.00
F.O.B. WEST NORFOLK, VA.
14-ft.
OUTBOARD RUNABOUT
As Seen at the NEW YORK BOAT SHOW
Full-Size deck Oak Framing Brass Screws throughout.
Wide Beam High Freeboard Generous seating capacity.
A fast boat and a SAFE boat for fresh or salt-water use.
Can take motors of 5 H.P. to 25 H.P. Also available in 12 ft. model.
SEE YOUR BOAT DEALER or write to
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WRITE FOR INFORMATION ON NEW PLASTIC RUNABOUT

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"Kinnereth" (above) is typical of the fine sport fishermen we have built. May we discuss your new boat with you?

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REVERSE GEARS

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G. WALTER MACHINE COMPANY
84 CAMBRIDGE AVE. JERSEY CITY 7, N. J.

a stove bolt with leather washers inside and out. It is advisable to steam or boil all timbers or planks that are even moderately difficult to bend in place. It will make the work easier and relieve the hull of strains that might pull it out of line, or cause a plank to spring loose. Boiled wood also is less susceptible to dry rot.

If building out of doors and without a cover, keep the hull painted and the mahogany stained, filled, and varnished from the moment it is put on. It is not difficult to keep varnished mahogany in shape but let the raw wood weather a little and you have a real problem. If screw heads are countersunk and plugged, keep up to date with your painting and plugging of holes. Countersink holes catch and hold water and may start a spot of rot. Amateur boats built in spare time often are two or three years in building and I know one that required seven. If a boat is standing out in the weather all this time dry rot can cause trouble long before launching time. Of course every timber, plank, knee, floor, and other pieces going into the hull should be coated (or better yet, soaked) in wood perservative.

Assuming it is properly cared for, the longevity of a wooden boat depends on its ability to shed all water that falls on it, on the provision for its thorough ventilation, and on the quality of its timbers, planks, and fastenings. Since the labor for building will be about the same whether good or poor materials are used it is utter folly to build with anything but the best materials. Whether you keep her for thirty years or sell her after five you will be glad your boat has high quality materials in her hull and superstructure, and standard marine hardware on her decks and in her cabin.

At least two kinds of insects can damage your boat seriously while she is still in the back yard. Carpenter bees attacked the Port Oriord bottom planking of my cruiser and would have riddled it with half-inch holes had I not discovered them early. They look like bumble bees but their after half is black and shining instead of yellow and furry. A spraying with the new insecticide called chlordane stopped them for the summer. Termites come up from the ground, burrow through support timbers, keel blocks, and into the hull without ever showing themselves. They can be excavating in your breasthook before you know they are around. Put a sheet of thin galvanized iron between keel blocks and keel to keep them out of the boat. Termite work may also cause support timbers to sag and throw the frame out of plumb. Rot or soft ground can do the same thing. The careful builder will guard against this tragedy by putting his level on a waterline, a floor, and an upright frame member at least twice a week during the entire period of construction.

H. H. S., Ithaca, N. Y.

SOME PROFESSIONAL ADVICE

THE old saying that a boat is a success or failure before the first nail is driven is a true one. Here is an outline of the preparatory steps followed by the writer in assisting a number of amateurs, all of whom successfully completed their boats.

DESIGN: The design of a first boat should, of course, be simple and straightforward; however, these qualities must not be obtained at the expense of fulfilling the owner's minimum requirements, or by sacrificing technical correctness. Building any boat, even an unsatisfactory one, is quite a job, once committed to the project it takes only a little more time and effort to built a boat which is "right."

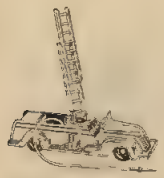
BILL OF MATERIALS: Unlike the professional who can carry surpluses over to the next boat or draw on stock for shortages, the amateur must know his material requirements right down to the last nut and bolt. This is, frankly, a tedious job which involves making a rough sketch of each sub-assembly and then listing each and every component. When the entire boat has been broken down in this way, the various lists are recapped under the name of the material. For instance, there will be a pipe list, fastening list, glass list, lumber list, etc. Despite the time and effort needed, this procedure is worthwhile. First, it is the one way of cutting costs without sacrificing quality. Buying in quantity, instead of piecemeal, assures lower unit prices and lessened transportation costs. Secondly, it assures that the proper materials will be on hand when needed. Finally, it is the only way to make a reasonably accurate cost estimate.

ORDERING: Place orders well in advance. Delivery of boatbuilding materials, particularly lumber, takes time.

BUILDING SHED: If an adequate building shed is not available, consider erecting a substantial weathertight temporary structure. Building anything but the smallest boat under a makeshift lean-to or tent is heartbreaking, time-consuming and actually more costly in the end. Many amateurs do not heed this advice but wish they had before the boat is finished. Remember, working alone on

Saunders

Plastic—With Friction Drive



Fire Truck

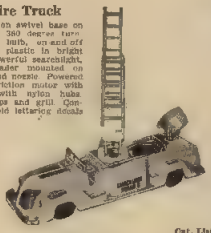
Has double wind-up spring motor and siren. Adjustable ladder mounted on swivel. Fire hose and nozzle. Heavy plastic body enclosed motor, front whee. drive rubber wheels decorated steps and grill. Colored red.

Stock No.	Mfr's. No	Lgth. In.	Th Doz.	Cat. List EACH
4H 2295	300	12	14	$1 80

One dozen in a carton.

Searchlight Fire Truck

Searchlight mounted on swivel base on rear of truck. A swing 360 degree turn. Complete with battery, bulb, on and off switch. Truck of heavy plastic in bright red. Features include powerful searchlight, adjustable extension loader mounted on swivel base, fire hose and nozzle. Powered by powerful enclosed friction motor with siren. Rubber wheels with nylon hubs. Aluminum decorated steps and grill. Contrasting black outline gold lettering decals on side and hood.



Stock No.	Mfr's. No.	Lgth. In.	Th Each	Cat. List EACH
4H 2291	350	12	1	$2 25

Twenty-four in a carton.

Fire Chief Car

Has powerful friction motor and siren. Top light and siren post. Heavy plastic body enclosed motor, decorated grill, gold lettering side and hood. Colored red.

Stock No.	Mfr's. No.	Lgth. In.	Th Doz.	Cat. List EACH
4H 2294	260	10½	11	$1.50

One dozen in a carton.

Police Squad Car

Powerful friction motor and siren, aerial siren post, top light. Heavy plastic body, enclosed motors, decorated windows and grill gold lettering side and hood. Rubber wheels. Assorted colors red and blue.

Stock No.	Mfr's. No.	Lgth. In.	Th Doz.	Cat. List EACH
4H 2293	225	8	7	$1.10

One dozen in a carton.

Hot Rod

Souped-up motor. It runs, climbs jumps. Hottest action of any mechanical toy. Stripped down bright plastic body. Aluminum color motor and grill. Rubber tires. Packed 1 dozen green, ½ dozen yellow.

Stock No.	Mfr's. No.	Lgth. (Inches)	Ht. (Inches)	Wd. (Inches)	Th Doz.	Cat. List EACH
4H 2296	400	7½	3½	3	11	$1.05

Two dozen in a carton.

Stock Car

Made of durable shock-resistant polystyrene with contrasting decal numbers on each door, natural steel crash guard in front, aluminum sprayed grill, bumpers and motor. Removable hood shows simulated motor underneath. Features powerful friction motor.

Stock No.	Mfr's. No.	Lgth. (Inches)	Wd. (Inches)	Ht. (Inches)	Th Each	Cat. List EACH
4H 2289	460	8½	3	3½	¾	$1.05

Twenty-four in a carton.

Jaguar With Sparking Exhaust

The Jaguar is the fastest thing on wheels. Shoots sparks from back of car. Brand new speedy friction motor. Made of shock resistant rod plastic. Features a little man in driver's seat, steering wheel and wind shield. Hood lifts up exposing simulated motor. Brilliantly decorated.

Stock No.	Mfr's. No.	Lgth. (Inches)	Wd. (Inches)	Ht. (Inches)	Th Each	Cat. List EACH
4H 2299	700	9	3⅛	3	1	$1 35

Twenty-four in a carton.

Catapult Plane Carrier

A realistic action toy of plastic. Jet planes are shot from the flight deck a distance of 15 to 20 feet. Body of carrier designed to simulate appearance of Navy flight deck. Wheels permit play on floor and water, tight bull allows it to float.

Stock No.	Mfr's. No.	Lgth. (Inches)	Wd. (Inches)	Ht. (Inches)	Th Doz.	Cat. List EACH
4H 2290	38	12½	3	3	4	$1.50

Two dozen in a carton.

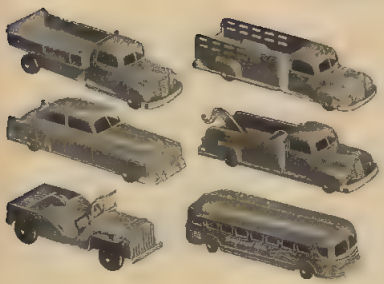
Super Battle Tank

Built like a battle tank with high powered friction motor. Made of shock resistant plastic in regular Army color. Revolving turret with insignia decal on sides. Will climb over difficult terrain and obstructions.

Stock No.	Mfr's. No.	Lgth. (Inches)	Wd. (Inches)	Ht. (Inches)	Th Doz.	Cat. List EACH
4H 2292	800	8	4½	4	8	$2 50

One in a box. Two dozen in a carton.

Tootsietoy



Jumbo Assortment

A truly fine assortment of six different kinds Greyhound Silversides Bus, Stake Body Truck, Buick Sedan, Army Jeep, Dump Truck and Wrecker. Finished in assorted brilliant colors. "Rol-Easy" construction. Rubber wheels. Perfectly detailed models each 6 inches long, 1⅝ inches wide, 1¼ inches high.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 3392	5025	37	$0.55

Twelve dozen in a carton.

Playtime Set

Consists of eight cars and trucks and two large airplanes all with Tootsietoy "Rol-Easy" construction. Rubber wheels. Packed in a gift box.

Stock No.	Mfr's No.	lb Doz.	Cat. L'wt SET
4H 3378	7000	37½	$3.55

Two dozen sets in a carton.

Pan American Airlines Airport Set

Set consists of P.A.A. master pilot and clipper stewardess pins, loading ramp, tractor with two baggage carriers, refueling truck, two small planes, and one each Convair 240 Constellation and Stratocruiser planes. Double deck Stratocruiser and Constellation have four motors. All planes have rubber wheels and propellers that spin.

Stock No.	Mfr's No.	lb Doz.	Cat. List SET
4H 3375	6500	19	$2.50

Two dozen sets in a carton.

Sayco Babies

Millions and Millions of Little Girls Have Loved Their

SAYCO DOLLS

SINCE 1907

VISIT
OUR TOY FAIR DISPLAY
ROOMS 814-815
HOTEL NEW YORKER

Sayco Doll Corporation

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NEW YORK 13, N.Y.

SHOWROOM: ROOM 2503
1407 BROADWAY
NEW YORK

SAYCO DOLLS

SINCE 1907

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DOLLS

At Their Best

Early Buyers Invited

We are prepared to serve you in 1951 to the best of our ability

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BROOKLYN, N. Y.

Showroom: Room 2503
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TRU-LIFE RUBBER TOYS

NAPPY SLEEPING PAJAMA BABY

Available for Delivery

NOW

WET and WHISTLE BABY

TRU-LIFE TOYS, Inc.

151 KENT AVENUE BROOKLYN, N. Y.

Schoenhut

MARK WELL THE NAME

Since 1872 . . .
Maker Of The
World's Finest
Toy Pianos

No toy piano made anywhere in the world can equal a Schoenhut for tone, for quality, for dollar value. The unique Schoenhut tone rods imbedded in steel bars are but one of the exclusive features that earmark their superiority. Retailers can take justifiable pride in presenting these peerless instruments to the public. Made in America of American materials, they are a superb example of American leadership in raising the world's standard of living.

O. SCHOENHUT, Inc. • 2046 E. CASTOR AVE. • PHILADELPHIA 34, PA.

MOSELEY & ABRAHAMS, 200 FIFTH AVENUE, NEW YORK 10, N. Y.

Schoenhut

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O. SCHOENHUT, Inc. 2046 E. Castor Ave., Philadelphia 34, Pa.

MOSELEY & ABRAHAMS, 200 FIFTH AVE., N. Y. 10, N. Y.

Automatic and Novelty Knives

MIDGET CHARM KNIVES

The lowest priced, fastest selling, key-chain souvenir knife on the market. Only 1½" long. White plastic handles, sharp pen blade and non-kinking, bead-link key chain attached. Steel lined. **One dozen on easel display card.** Ship. wt. 1 lb. **Retail 49c each.**

311K349.....PER CARD **$2.70**

In lots of 12 cards, Per Card $2.59

As above: With brass tips and lining.

411K294.....PER CARD **$3.35**

POCKET—PURSE KNIVES

A handy knife for both men and women. **One sharp pen blade, assorted colored handles, brass tips and lining.** Complete with attached, non-kinking, bead-link key chain. Length of knife 2½". **One dozen on easel display card.** Ship. wt. 1 lb. **Retail 49c each.**

311K313.....PER CARD **$2.85**

In lots of 12 cards, Per Card $2.75

As above: With Art Photo handles.

311K394.....PER CARD **$3.35**

DELUXE PEN KNIVES

A general, light duty utility knife. White and mottled colored plastic handles. Tipped ends. Ea. for chain attachment. **Two high-carbon steel blades.** Length 2¾" closed. **One dozen on easel display card.** Ship. wt. 1 lb. **Retail 69c each.**

311K295.....PER CARD **$3.98**

In lots of 12 cards, Per Card $3.79

"SNAPPY" AUTOMATIC MIDGET

Press-button pocket knife with key chain. Locks in open and closed positions. White and assorted mottled colored plastic handles. Nickel-plated guard bolsters, fishtail shape caps and bead chain. Brass lined **Mirror polished, 1¾" sabre clip blade. Shown actual size. One dozen on easel display card.** Ship wt. 2 lbs. **Retail $1.25 each.**

311K348.....PER CARD **$7.95**

"SHUR-SNAP" 1-BLADE AUTOMATIC

Opens quick as a wink! Locks in both positions. Safety slide lock. Assorted colorful plastic handles. Mirror polished, high carbon steel sabre clip blade. Nickel-plated bolsters. Brass lined. **Length closed 2¾".** One dozen on easel display card. Ship. wt. 3 lbs. **Retail $1.29 each.**

311K347.....PER CARD **$7.95**

"SHUR-SNAP" FISHTAIL AUTOMATIC

Press button to open—press button to close. Has safety slide lock. High carbon, mirror finished, slim, sabre clip blade. Attractive White and mottled colored plastic handles. Nickel-plated cross-bar bolsters and caps. Brass lined. **Length closed 4".** One dozen on easel display card. Ship. wt. 3 lbs. **Retail $1.29 each.**

311K332.....PER CARD **$7.95**

"SHUR-SNAP" JUMBO AUTOMATIC

Press button knife with safety slide lock. Large pattern. Wide, high carbon steel blade, polished finish. Assorted mottled colored plastic handles with shackle. Brass lined. **Length closed 4⅛". One dozen on easel display card. Retail $1.35 each.**

311K321.....PER CARD **$7.95**

SCHRADE GUARD AUTOMATIC

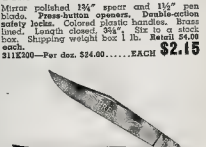
Fully polished, large clip blade. Press-button opener and double-action safety lock with folding guard. Genuine bone stag handles. Nickel-silver bolster. Brass lined. **Length closed 3".** Six to a stock box. **Retail $3.50 each.**

311K350—Per doz. $36.00.....EACH **$3.15**

SCHRADE 1-BLADE AUTOMATIC

Press-button opener and double-action safety lock. One mirror polished clip blade 2½". Colored plastic handle. Brass lined. Length closed 2¾". Six to a stock box. Ship. wt box 1 lb. **Retail $3.50 each.**

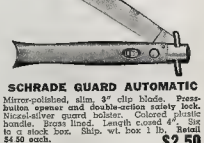
311K307—Per doz. $20.00.....EACH **$1.75**



SCHRADE 2-BLADE AUTOMATIC

Mirror polished 1¾" spear and 1½" pen blade. **Press-button openers. Double-action safety locks.** Colored plastic handles. Brass lined. Length closed 2¾". Six to a stock box. Shipping weight box 1 lb. **Retail $4.00 each.**

311K200—Per doz. $24.00.....EACH **$2.15**



SCHRADE FISHTAIL AUTOMATIC

Slim, 3", mirror-polished clip blade. **Press-button opener. Double-action safety lock.** Colored plastic handle. Brass lined Length closed 4". Six to a stock box. Ship. wt box 1 lb. **Retail $3.75 each.**

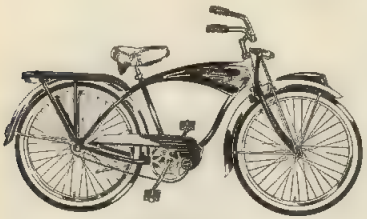
311K304—Per doz. $23.00.....EACH **$2.00**

SCHRADE GUARD AUTOMATIC

Mirror-polished, slim, 3" clip blade. **Press-button opener and double-action safety lock.** Nickel-silver guard bolster. Colored plastic handle. Brass lined. Length closed 4". Six to a stock box. Ship. wt. box 1 lb. **Retail $4.50 each.**

311K346—Per doz. $28.00.....EACH **$2.50**

"SCHWINN" BICYCLES



Model B-17
"The Black Phantom"

Frame—Cantilever construction, fully streamlined design, Steel tubing. Removable seat post clamp, built in kick stand, built in mud guard and chain guard mountings. Guards are sparkling Chrome.
Fork—Tubular electronic construction—no brazing
Tires—26x2⅛ in. Cord Balloon white side wall
Saddle—New style Schwinn.
Brake—New Departure or Bendix. Front wheel brakes at additional cost
Mud Guards—Extra wide and deep
Chain—½x⅛ in roller
Rims—Tubular Chrome plated
Pedals—Deluxe best grade
Rear—Stop and Tail Light, carrier.
Handlebar—Motorcycle type—rubber mounted
Finish—Black and Red with Chrome guards and tank

No. B-17 ..... Each $115 20
No. B-17 With front wheel brake ..... Each 125 20

Model D-74

Frame—Schwinn built tubing
Fork—Solid forged steel.
Tires—26x2⅛ in. cord balloon
Saddle—Troxel felt padded.
Mudguard—3 in. wide.
Chain—1x⅜ in. roller.
Rims—Tubular, enameled.
Rear Reflector—Ruby Jewel
Handlebar—Boy Scout striping
Finish—Light Blue Enamel with

No. D-74 ..... Each $67 20

Model D-24

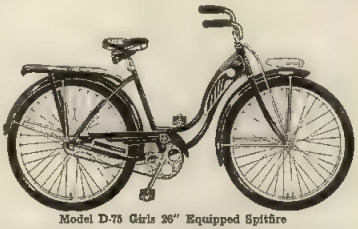
Frame—Schwinn built tubing.
Fork—Solid forged steel.
Tires—26x2⅛ in. Cord Balloon
Saddle—Troxel felt padded
Mudguard—3 in. wide.
Chain—1x⅜ in. roller
Rims—Tubular, enameled.
Rear Reflector—Ruby Jewel
Handlebar—Boy Scout.
Finish—Light red baked enamel and striped.

No. D-24 ..... Each $67 20

Model D-25 Men's 26" Equipped Spitfire

Frame—Schwinn-built tubing, removeable seat post clamp
Fork—Solid forged steel construction patented truss plate, chrome truss rods
Front Hub—Schwinn standard with removable cups and cones.
Rear Hub—New Departure, Bendix or Musselman coaster brake
Handlebar—Boy Scout.
Kickstand—Miller detachable
Chain—1" x ⅜" roller
Luggage Carrier—Sturdy streamlined, mounted on frame.
Tires—26" x 2⅛" Cord Balloon
Saddle—Standard padded
Pedals—Rubber
Rear Reflector—1¾" Ruby Jewel.
Finish—Baked-on enamel. Light red

No. D-25 ..... Each $75 00



Model D-75 Girls 26" Equipped Spitfire

Frame—Schwinn-Built tubing, removable seat post clamp
Fork—Solid forged steel.
Front Hub—Schwinn standard with removable cups and cones.
Rear Hub—New Departure, Bendix or Musselman coaster brake
Handlebar—Boy Scout.
Kickstand—Miller detachable
Chain—1" x ⅜" roller.
Luggage Carrier—Sturdy.
Tires—26" x 2⅛" Cord Balloon.
Saddle—Standard padded
Rear Reflector—1¾" Ruby Jewel.
Finish—Baked on enamel, Light Blue.

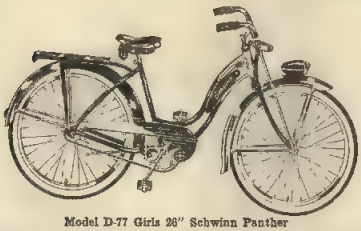
No. D-75 ..... Each $75 00

Model J-66 Girls 16" Juvenile

Frames—Schwinn Bantam Frame Electronic forged.
Fork—Schwinn forged fork Special Bantam size
Front Hub—Standard Schwinn front Hub
Rear Hub—New Departure, Bendix or Musselman coaster brake
Handlebars—Chrome plated
Kickstand—Standard, built-in.
Tires—16" x 1¾" semi pneumatic
Finish—Standard Schwinn finish Light Blue, Ivory trim

No. J-66 ..... Each $60.00

"SCHWINN" BICYCLES



Model D-77 Girls 26" Schwinn Panther

Frame - Exclusive patented construction, fully streamlined design, Schwinn-built tubing, removable seat-post clamp, built-in kickstand, fender and chain guard brackets. Droup-out rear fork ends, form strengthened.
Fork — Schwinn patented spring fork—Standard on the Panther.
Crank Set — Schwinn one-piece crank, special fine grain cups and cones, triple heat-treated.
Front Hub—Schwinn design. Bearings with large 7/32" balls and retainers.
Rear Hub — New departure or Bendix coaster brake.
Head Set—New design with semi-thrust type lower races.
Handlebar Stem — Standard extension.
Kickstand — Schwinn-built patented construction.
Fenders — Chrome plated deep type formed and reinforced where attached to frame. Semi-tubular braces, rear braces attached to frame.
Chainguard — Embossed design Heavy brackets attached to mounting lugs, built into frame
Chain—1 x 3/16" roller.
Headlight—Rocket Ray, self-contained.
Luggage Carrier—Mounted directly to frame, not to rear axle. Jewel Reflector.
Tires—Whitewall 26 x 2⅛".
Saddle—Messinger padded chrome springs and new tan Koroseal top.
Pedals—Standard rubber pedal
Rear Reflector—Stimonsonite
Finish—Finest synthetic enamels, Red and Green two-tone

No. D 77 .... Each $90.00

Model D-27 Men's 26" Schwinn Panther

Frame — Exclusive patented construction, fully streamlined design. Schwinn-built tubing, removable seat-post clamp, built-in kickstand, fender and chain guard brackets. Drop-out rear fork ends, form strengthened.
Fork - Schwinn patented spring fork. Standard on the Panther.
Crank Set - Schwinn one-piece crank, special fine grain cups and cones, triple heat-treated.
Front Hub — Schwinn design. Bearings with large 7/32" balls and retainers.
Rear Hub — New departure or Bendix coaster brake
Head Set—New design with semi-thrust type lower races.
Handlebars—26 x 3.
Handlebar Stem — Standard extension.
Kickstand — Schwinn-built patented construction.
Fenders — Chrome plated deep type formed and reinforced where attached to frame. Semi-tubular braces, rear braces attached to frame
Chainguard — Embossed design. Heavy brackets attached to mounting lugs, built into frame
Chain—1 x 3/16" roller.
Headlight—Rocket Ray, self-contained.
Luggage Carrier—Mounted directly to frame, not to rear axle. Jewel Reflector
Tires—Whitewall 26x2⅛".
Saddle—Mesinger padded Chrome springs and new tan Kerascal top.
Pedals—Standard rubber pedal
Rear Reflector—Stimonsonite
Finish—Finest synthetic enamels, over heavy prime coat. Black with red.

No. D-27 .... Each $90.00

MEN'S "SCHWINN" BALLOON TIRE BICYCLES

Model D19

Frame—Fully streamlined design, Schwinn built tubing Removable seat post clamp, built in kick stand, mud guard and chain guard brackets, drop out rear fork ends.
Fork—Oval, solid forged steel.
Tires—26x2⅛ in. Cord Balloon.
Rims—Enameled, Schwinn Tubular.
Saddle—Mesinger
Pedals—Rubber.
Handlebar—26x8 in.
Chain—½x3/32 in. roller. or Bendix.
Coaster Brake—New Departure

Colors—Light red, with Ivory trim

Equipped with streamlined tank containing horn; Chain Guard; Headlight, fender torpedo type; Luggage Carrier; Rear Reflector Jewel.

No. D19 ..... Each $83.20

LADIES' "SCHWINN" BALLOON TIRE BICYCLES

Model D69

Frame—Streamlined frame with 5⅝ in. head Removable seat post clamp, built in kick stand, chain and mud guard brackets and drop out rear end fork ends
Fork—Oval, solid forged steel.
Tires—26x2⅛ cord balloon.
Rims—Enameled, Schwinn Tubular.
Saddle—Mesinger.
Pedals—Rubber.
Chain—1x3/16 in. roller.
Coaster Brake—New Departure or Bendix.
Colors—Light Blue, with Ivory trim.

Equipped with streamlined tank containing horn; chain guard; Headlight, fender torpedo type. Rear Reflector Jewel.

No. D69 .... Each $83.20

"The SCOTT-ATWATER *Shift* is the greatest boon to exploration since the rubber heel!"

— HASSOLDT DAVIS, noted explorer, Nepal, French Guiana, Ivory Coast

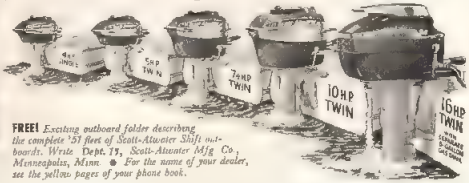
SINGLE KNOB CONTROL makes Scott-Atwater outboarding even easier. It's 3 controls in 1. Turn it to time the carburetor, push it to choke motor, pull and push it to drain carburetor. What's more

AUTOMATIC AIR VENT and gas line help make a Scott-Atwater an *all-family* outboard. Gone forever are those bothersome stopping-and-starting chores you've always done before. Simply start—Shift—have fun!

WHEN YOU EXPLORE your own favorite waters, for fun or for fish, you'll find a Scott-Atwater Shift outboard as great a boon as Davis did! Sunken log looming up?—Shift in a second to reverse. Can't find a channel? Shift to neutral, d-r-i-f-t till you do. Tough landing ahead?—it *might* be without the "inboard control" the complete Shift provides. With this great Shift you can have maneuverability you never knew before. Indeed, in every way, you'll find these exciting new Scott-Atwaters the motors that *modernize* outboarding.

Shift to Scott-Atwater

America's most complete fleet of *Shift* outboards



FREE! *Exciting outboard folder describing the complete '51 fleet of Scott-Atwater Shift outboards. Write* Dept. 71, *Scott-Atwater Mfg. Co., Minneapolis, Minn.* ● *For the name of your dealer, see the yellow pages of your phone book.*

Separate six gallon gas tank optional at extra cost for 5, 7½ and 10 H.P. models. All H.P. ratings O.B.C. certified at 4200 rpm

"The SCOTT-ATWATER *Shift* is unbeatable — reverse and neutral are ideal for landing!"

—*Albert Hankinson, Everett, Washington*

NO MORE ROWING up to the dock, no more guessing about when to reduce speed! With a Scott-Atwater *Shift* outboard, you cruise in under power. You shift to reverse to brake speed, shift to forward to nudge closer, shift to neutral to tie up. And you'll like your Scott-Atwater *Shift* just as well when leaving port, freeing a snagged line or exploring strange waters. Simply stated, here's the motor that *modernizes* outboarding! Five models to choose from—4 to 16 horsepower.

NO MORE FIDDLING with air vent and gas valve! On Scott-Atwater *Shift* motors, the air vent and gas line are automatically opened and closed as speed control lever is moved.

NO MORE GROPING for the right control! Scott-Atwater *Shift* outboards have single knob control. This three-in-one wonder adjusts and drains carburetor and chokes the motor.

Shift to Scott-Atwater

America's most complete fleet of *Shift* outboards

FREE FOLDER *about new outboards, with action pictures that almost take you out on the water! Write Dept. 41, Scott-Atwater Mfg. Co., Inc., Minneapolis 13, Minn. * For the name of your nearest dealer see the yellow pages of your phone book.*

Separate six gallon gas tank optional at extra cost for 5, 7½ and 10 horsepower models. All horsepower ratings OBC certified at 4200 RPM

with the ever-loving "C"—Service runabouts and developing into the "C" hydro class. Now possessed of a blistering "C," and coached by none other than Richmond's own Red Peatross, the tail fellow with the short pants and the big knee-pads can be seen bouncing around every course in the East in close company with Messrs Scott, Jankowsky, Stager, Broaddus, Marsh, et al. If but a small portion of Hud's promotional ability and ideas can be applied on a national basis by the A.P.B.A., inboard and outboard racing must surely prosper

W. Claude Fox, Outboard V.-P.

W. Claude Fox, top official in the racing outboard field by virtue of his election to the post of Outboard V.P., has been connected with the sport for nearly twenty-five years. Claude, known to many as "Pop," raced hydros back before there were any established national rules, went over to inboards in 1933 and returned to the outboards two years later in the inevitable "C"—Service class. In 1936 he stopped racing and started officiating (there must be something about "C"—Service that does it!) at outboard events. One of the organizers of the Dixie Motor Boat Association, Claude was elected commodore in 1941 and still holds that honor. He served as official referee in Dixie for the now extinct National Outboard Association until the war broke out. After four years in the Pacific, Claude shed the rank of Major and returned to his native Tennessee and the marine supply business. Since that time he has been Chairman of Region 14, Chairman of the Outboard Racing Commission, and Treasurer of the A.P.B.A.

"Pop" is the refereeingest mountaineer ever to put on shoes and sally forth from Knoxville. Having served in this capacity at every race in Region 14 since 1936, acted as referee in nearly all sections of the country, and having refereed no fewer than five National Championships, his record is second to none but that of Charles F. Chapman. Part of Claude's success in that difficult post must be attributed to his size for he extends skyward approximately six and one half feet—no small deterrent to the wilder emotions of temporarily irate drivers! This advantage was offset to a large

Art Ferro

New Officers of the American Power Boat Association: Dr. Lester C. Lowe, Los Angeles, vice president of the cruiser division; Dr. B. Paul Harter, Winter Garden, Fla., vice president, utility outboards; C. King Brugman, Los Angeles, retiring president; Charles P. Hanley, Muscatine, Iowa, vice president, inboards; Robert A. Bogie, Saranac Lake, New York, Secretary; W. Claude Fox, Knoxville, vice president, outboards; and Hudson S. Moses, Washington, D. C., senior vice president. The new president, Jack Horsley, of Miami, was not present

extent at the 1950 Nationals by an attack of laryngitis which left him totally speechless—a situation best compared to being stuck in Haverstraw Bay without a starting rope!

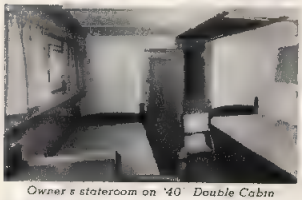
Included among Claude's many aims for 1951 are stricter enforcement of the rules, and better still, clarification of those rules which are loosely written and hence open to several interpretations.

B. P. Harter, Utility V.-P.

Florida's racing medico, Dr. B. P. Harter, was swept into the office of Utility Vice President and so became the key man in the A.P.B.A. drive to let the utility drivers assume their rightful position in an integrated organization rather than, as in the past, treating them as the proverbial step-children. Although Doc is a relative newcomer to outboard racing his enthusiasm more than makes up for the late start. In good medical fashion, Doc prefers to consider outboard racing as a disease of which "the most characteristic symptom is a state of euphoria, indescribable and experienced only by fellow sufferers." In the same vein we might add that proper treatment of this malady often requires euthanasia

The "40" Double Cabin Flying Bridge *is Matthews most luxurious model*

Close-up of Flying Bridge and Folding Canopy



Owner's stateroom on '40 Double Cabin

The "40" DeLuxe Sedan *the all purpose cruiser*

The "32" Playboat—
a smaller version of the famous "40"

You'll always be proud to own a Matthews

NO OTHER CRUISER gives you that pride of ownership felt by all Matthews owners. No other cruiser has so many "plus" values throughout. For 61 years Matthews Cruisers have been built "for keeps" by a crew of master builders. They carry the highest price in the used market—the real yardstick of value.

You can join that select circle of owners also if your next cruiser carries the "Matthews" nameplate.

Write today for free catalog and price list on any model shown.

THE MATTHEWS COMPANY
PORT CLINTON 4, OHIO
DEALERS COAST-TO COAST
In Florida—Matthews Cruisers, Inc., 1825 Biscayne Boulevard, Miami

"Wherever you cruise...you'll find a Matthews"

SENSATIONALLY NEW...

completely revolutionary . . .

Selco

HITS THE BULLSEYE AGAIN!

DART SHOOTER AUTOMATIC

shoot your
sales upward with

"MARKSMAN*"

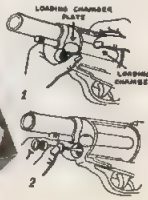
the radically new 5 shot Automatic Dart Pistol with revolving "ammunition" chamber

New in principle . . . new in design . . . A safe and fascinating toy which the entire family will enjoy.

"MARKSMAN"*, the automatic rubber suction dart pistol, features the revolving "ammunition" chamber and fires 5 accurate shots with one loading. This handsome toy innovation will inject new life into your Toy Department!

Due to shortages of critical materials, only limited quantities are available. Order now to assure delivery.

#220—Over-all length 8". Made of smart, sturdy red and black durable plastic.



Each attractively colored box contains the "MARKSMAN*" Automatic Dart Pistol, 5 Plastic Rubber Suction Cup Darts, a Four-Color Bullseye Target and full simple instructions. Individually packed, 12 boxes to carton, weight 23 lbs.

TO RETAIL AT

$3.95

*T.M. Pat. App. For

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SELCO NOVELTY PRODUCTS, INC.

See our complete line at our permanent showrooms,

Exclusive Distributors: JULIUS KUSHNER • MILTON JACOBS, Room 561, 200 Fifth Ave., New York 10, N. Y.

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HITS THE BULLSEYE AGAIN!

DART AUTOMATIC

shoot your
sales upward with

"MARKSMAN*"

the radically new 5 shot Automatic Dart Pistol with revolving "ammunition" chamber

New in principle . . . new in design . . . A safe and fascinating toy which the entire family will enjoy.

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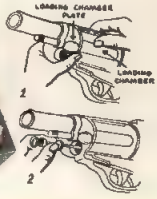

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A COMPLETE LINE OF FAST SELLING POWER TOOLS

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SHOPMASTER

When you sell a Shopmaster tool, you are adding a new steady customer. Homecraft hobbyists are always looking for new ideas. They build traffic for other departments, too.

When you sell Shopmaster tools, you can be confident that you are selling one of America's finest tools at very reasonable prices.

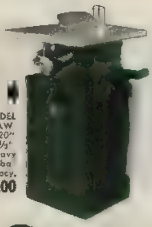
Set aside a corner in your store to feature Shopmaster Tools, and watch traffic pick up in all departments. Be the center of town for these enthusiastic home hobbyists.

Shopmaster tools are noted for their durability, their high standard of construction of rugged cast aluminum alloy and the wide choice of styles. Best of all, the prices are reasonable. Because Shopmaster tools are made of lightweight, yet sturdy, aluminum, shipping costs are lower. Don't delay another day in finding out more about SHOPMASTER tools —the modern store's traffic builder. Write to Shopmaster, Inc., 1214 South Third Street, Minneapolis, Minnesota.

They're Nationally Advertised

12" TILTING TABLE BAND SAW Table work surface 12"x18". Cutting depth, 6½". Table tilts to 45°. Ball bearings. **$87.50**

Also available in 10" size. $46.45*



10" FLOOR MODEL TILTING ARBOR SAW Table size 26"x20". Depth of cut, 3½". Arbor tilts 45°. Heavy construction plus ball bearings for accuracy. Complete with stand **$105.00**

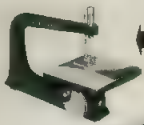
12" DRILL PRESS. Ball thrust bearing Jacobs Chuck, 3-spoke feed wheel, plus many accessories make this a most versatile tool **$47.95**

Also available in cast floor model. $54.00*

10" WOOD TURNING LATHE Capacity, 10" swing, 31" center to center. Rugged frame, sealed-for-life ball bearings **$45.95**

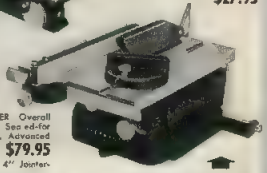
SABER SAW. Table size 10" x 10". Depth of cut 1½". Table tilts to 45°. **$17.95**

BELT AND DISC SANDER Belt 6" wide, 48" long. Disc diameter 10" Adjustable table tilts to 45°. **$51.50**



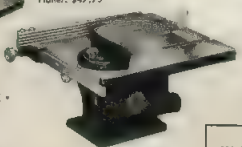
15" TILTING TABLE JIG SAW. Table size 10"x10". Cutting depth, 2¾". Table tilts 45°. **$27.95**

8" TILTING ARBOR BENCH SAW Table size 16"x20" Depth of cut, 2½". Blade tilts to 45° Includes Rip Fence, Miter Gauge Guard **$76.95**

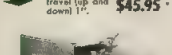


6" JOINTER-PLANER Overall table length 34". Sealed-for-life ball bearings. Advanced design cutting head. **$79.95**

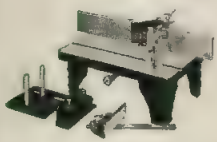
Also available, a 4" Jointer-Planer. $47.95



7" TILTING ARBOR BENCH SAW Ball bearing arbor. Heavy cast construction Depth of cut, 2½" Blade tilts to 45° Ideal for the small shop. **$47.95**



SPINDLE SHAPER. Table size 14"x18". Spindle travel (up and down) 1". **$45.95**



Similar to Above Illustration 7" TILTING TABLE BENCH SAW. Table size 14"x18" Depth of cut, 2¼" Sealed-for-life ball bearings. **$33.95**

There is also a complete line of accessories for SHOPMASTER TOOLS

Write Today for Full Color Catalog and Information About Profit-Building Shopmaster Tools

SHOPMASTER INC.

1214 Third St. S., Minneapolis, Minn.

Jacks

4 WAY HEAD—with a centralized BALL of Chrome Molybdenum Steel resting on a hardened steel plate. The CAP is a heat treated drop forging. The HANDY HOLE in the base enables operator to see how high the pad can be safely lifted.

Each Simplex Screw Jack is LACQUER-ED in attractive colors—a different color for each diameter screw.

The CAPACITIES shown *are operable, safe* and guaranteed

1¼-In. Screw Diam.—10 Ton Lift Cap

Stock No.	Screw Size In.	Closed Ht. In.	Operatable Rise In. Screw	lb Each	Fact. List	Cat. List EACH
2W 6490	1¼x10	14	8	15	*$5 70*	$7 70

1½-In. Screw Diam.—12 Ton Lift Cap

2W 6488	1½x 6	10½	3½	10	*5 60*	7.55
2M 6491	1½x 8	12½	5½	12	*6 00*	8.65
2W 6492	1½x10	14½	7½	14	*7.10*	9 60
2W 6493	1½x12	16½	9½	16	*7.90*	10 62

2-In. Screw Diam.—20 Ton Lift Cap

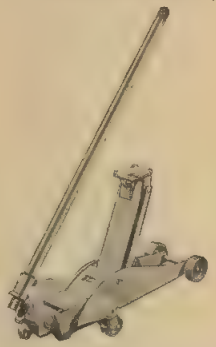
1W 6494	2 x10	14½	7	20	*10.10*	13 65
1W 6495	2 x12	16½	9	23	*11.30*	15 20
1W 6496	2 x14	18½	11	26	*13.40*	74 25

2½-In. Screw Diam.—24 Ton Lift Cap

1W 6497	2½x 8	13	4½	30	*15.10*	17 65
1W 6498	2½x12	17	8½	37	*16 10*	21.70
1W 6499	2½x14	19	10½	40	*18.00*	24 25

Service Jacks

Curb Jack With Swivel Wheels



Blackhawk—1½ Ton

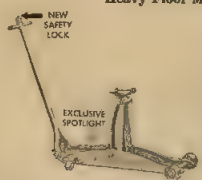
A real service jack power unit, no assembled parts with external seams to invite leakage. All steel lifting arm and side plates, no chance for "spreading" side plates. Entire handle is release control, grip anywhere along handle to operate. Detachable handle, inserted and removed without levers, gears or springs. For service stations, tire shops, and small garages. For grease and wash rack service, quick brake adjustments, tire changes, road service and general shop uses. Handles all passenger cars and light trucks.

Capacity	3000 pounds
Low Saddle Height	3⅝ inch
Hydraulic Lift	15 inch
Max. Saddle Height	18⅝ inch
Max. Frame Height	6¼ inch
Size of Saddle	3⅜x2¾ inch
Chassis Length	29 ¼ inch
Handle Length	42⅜ inch
Overall Length	71⅝ inch
Weight	64 pounds

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
1W 6322	S23	82	$93 15

Not crated.

Heavy Floor Model



Blackhawk—4 Ton

World's finest all-purpose service jack. Built to stand the gaff of toughest heavy-duty work in any repair shop. Handles all passenger cars and light trucks. Lifts from 3⅜ inches to full 24 inches in height.

Capacity, pounds	8,000
Low Saddle Height, In.	3⅜
Hydraulic Lift, In.	20¾
Max. Saddle Height, In.	24
Max. Frame Height, In.	6⅛
Size of Saddle, In.	4¼x8¾
Chassis Length, In.	49
Handle Length, In.	44
Weight, Pounds	190

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
1W 6320	S4	195	$215 35

Not crated.

Now! The New SLINK'EM

OFFERS 3 EXCITING GAMES in One Box

1 SLINK'EM NUMBERS GAME

Here's the basic Slink'Em Game. Slinkys flip-flop down runway, land on plus or minus numbers. Never a dull moment for children and grown-ups, too.

Game includes sturdy fibreboard runway, game board overlay, two junior-size Slinkys, 3 "base-runners"—and emery board to keep runway from getting slippery with use. Attractively packaged.

RETAILS AT $1.50

2 SLINK'EM BASEBALL GAME

Slinky scores strikes, balls, hits, etc., by landing in squares on baseball diamond overlay. Close competition adds to fun and novelty.

3 SLINK'EM BIG GAME HUNT

Marksmanship pays off in points as players aim Slinky at wild "critters" on target-like overlay.

See the New SLINK'EM at the American Toy Fair

Rm. 1044, Hotel McAlpin
James Industries

Rm. 609, Hotel McAlpin
Walter & Arthur Krenzien

Rm. 521, 200 Fifth Ave.
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JAMES INDUSTRIES, INC.

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DON'T FORGET SLINKY

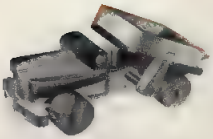
the amazing spring toy that walks by itself down stairs and slopes. A hot item for year-round impulse sales.

COMMENDED BY PARENTS MAGAZINE

Retails at $1.00

As "Toy Truck Makers to All American Youth" we are pleased to announce . . .

There'll be a Smith-Miller Truck for every youngster in 1951 . . .



NEW! JR. SMITH-MILLER LINE
IN HARMONY HARDWOODS

ON DISPLAY
ROOM 743, HOTEL NEW YORKER

"First Toy Line of Defense"

SMITH-MILLER
SMITTY TOYS

2932 NEBRASKA AVE., SANTA MONICA, CALIFORNIA

AMERICA'S MOST COMPLETE COWBOY LINE

Gene Autry

★ PISTOLS ★ PISTOL and HOLSTER SETS
★ COWBOY OUTFITS

Roy Rogers

★ PISTOLS ★ SPURS

Dale Evans

★ PISTOLS ★ SPURS ★ HOLSTER SETS

TEXAS STAR RANGER — LONE RIDER
COWBOY SUITS — HOLSTER SETS — PISTOLS — COWBOY HATS

See us at the Toy Fair . . .

McALPIN HOTEL
ROOM 808-810

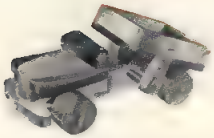
Leslie-Henry Co.

MOUNT VERNON, N. Y.

SHOWROOM: 1107 Broadway, New York 10, N. Y.
M. A. Henry Western Co., 1751 Olympic Blvd., Santa Monica, Calif.
M. A. Henry Limited, Scarborough Junction, Ontario, Canada

As "Toy Truck Makers to All American Youth" we are pleased to announce . . .

There'll be a Smith-Miller Truck for every youngster in 1951 . . .



NEW! JR. SMITH-MILLER LINE
IN HARMONY HARDWOODS

ON DISPLAY
ROOM 743, HOTEL NEW YORKER

"First Toy Line of Defense"

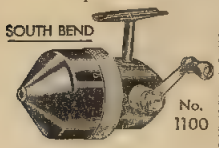
SMITH-MILLER
SMITTY TOYS

2932 NEBRASKA AVE., SANTA MONICA, CALIFORNIA

Fresh Water Reels

Spinning Reels

Spin Cast Reel—South Bend

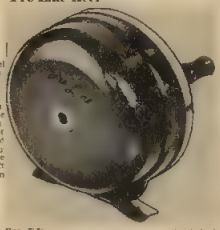


Streamlined, rich maroon anodized finish with bright part for effective contrast. All working parts fully enclosed. Light weight. Requires only one hand to operate. Carboloy pick-up pin. Knurled ring clutch gives fine drag adjustment. Has non reversing crank and ajustment. Casts almost lures without backlashing. Can be disassembled in 30 seconds with a coin as screwdriver.

Stock No.	Mfr's. No.	Oz. Each	Fact. List EACH
2V 5920	1100	8	$27 50

One in a box.

Pre-Line Reel



Wright & McGill

Made of stainless steel and aluminum cap to avoid rust or corrosion. Wind nut and eyed cap is hard chromed. Simple construction. Easy to operate. Line feeds off stationary spool eliminating backlash or line tangle. Can be used effectively on casting, fly, or spinning rod. May be used either right or left hand by reversing position on rod.

Stock No.	Mfr's No.	Cap. Yds. 4 lb Test	Oz. Each	Fact. List EACH
2V 6025	10BC	85	7	$16 50

One in a box.

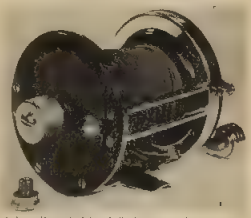
Johnson Spinning Reels

There is no spinning spool to over-run and cause backlashes. The control mechanism is simple and fool proof. Requires no oiling. Permanently lubricated by electro film process. True one hand control. Casts any weight spoon, plug, or bait. Adjustable automatic drag. All metal, rust-proof. Uses monofilament line. Fewer moving parts.

Stock No.	Mfr's. No.	Oz. Each	Fact. List EACH
2V 6030	40	8	$12 75

Reel Accessories

A-Square Fluid Hub



Perfected on the principle of fluid viscosity by an engineer-sportsman. There are no rubbing parts or brake, only the action of a special disc rotating in an oil cell. Allows line to run free while bait is in the air, yet stops the spool when line reaches its maximum distance. It is easy to install. Just replace the side bearing screw with the A square fluid hub, tighten, and back off slightly.

For Penn Reels

Stock No.	Mfr's. No.	Oz. Each	Fact. List EACH
2V 6254	1	2	$3 00

For Ocean City Reels

Stock No.	Mfr's. No.	Oz. Each	Fact. List EACH
2V 6255	2	2	$3 00

For Bronson-Coxe Reels

Stock No.	Mfr's. No.	Oz. Each	Fact. List EACH
2V 6256	3	2	$3 00

For Pflueger Reels

Stock No.	Mfr's. No.	Oz. Each	Fact. List EACH
2V 6257	4	2	$3 00

All above six in a box.

Bronson Fresh Water Reel Parts Kit

For Repairing Reels

Contains the necessary replacement parts for the Bronson line of fresh water reels. The plastic hinged kit is divided into partitions and the cover indicates the correct part.

Stock No.	Mfr's. No.	Approx. lb Each	Fact. List EACH
2V 5613	55	2	$15 00

One in a carton.

Bass Baits

South Bend

South Bend—Bass-Oreno Baits

An under water and surface type bait. It floats when not in motion. On reeling it dives, zig zags and darts in a very alluring, minnow like course. The faster it is reeled the deeper it travels. Body 3⅛" long. Weight approximately ⅝ oz. Enamel finishes. Guaranteed not to crack.

Stock No.	Mfr's. No.	Color	Min Retail EACH	Fact List EACH
2V 459	973YP	Yel. perch, scale	$1.09	$1.25
2V 460	973RW	Rainbow scale	$ 1.09	1.25

One in a box.

South Bend—Babe-Oreno

An under water and surface type bait. It floats when not in motion. On reeling, it dives, zig-zags and darts in a very alluring, minnow like course. The faster it is reeled the deeper it travels. Body, 2¾" long. Weight approximately ⅝ oz. Enamel finishes. Guaranteed not to crack.

Stock No.	Mfr's. No.	Color	Fact List EACH
2V 450	972SF	Scale finish	$1.00

One in a box; 1 dozen in a carton.

Trix-Orenos

When cast up or down stream, or in lake, and allowed to sink of own accord the Trix-Oreno will flutter like a living bug without any manipulation of rod. It enables the fisherman to reach trout and bass in early season when they are feeding on underwater life. No. 293 Trix-Oreno for trout, blue gills, crappies, and other small game fish, has bangle to give extra flash. Hook size 6. Body length 1¾", width ⅜" Following color patterns

Stock No.	Mfr's. No.	Description	Fact List EACH
2V 425	593CH	Chromium	$0.75
2V 426	593G	24-Karat Gold	.75
2V 427	593RH	Red Hd., White Body	.75

Each on cellophane covered card.

No. 594 Trix-Oreno for bass and other larger species of game fish, has No. 1 hook, body length 1¾", width ⅝" Each one has a strip of pork rind attached. Following standard colors.

Stock No.	Mfr's. No.	Description	Fact List EACH
2V 434	594CH	Chromium	$0.75
2V 435	594RH	Red Head, White Body	.75

Each on cellophane covered card.

Trix-Oreno

For use with medium action rod. Length 3¼-in., weight ⅜ oz. Size 8/0 hook. Equipped with barrel swivel and bangle.

Stock No.	Mfr's. No.	Color	Min Retail EACH	Fact List EACH
2V 446	596CH	Chrome	$0.98	$1.10

One dozen in a carton.

Fly—Orenos

One on a perforated card, 12 cards connected. Following color patterns

Stock No.	Mfr's. No.		Fact List EACH
2V 381	970YP	Yel. Perch, scale finish	$.075
2V 383	970F	Frog Color	.75
2V 384	970RH	Red Hd., White Body	.75

One dozen in a box.

Trout—Orenos

Body 1⅛-in. Extremely strong yet light. Aluminum plate cemented into body connects hook and line. Highest grade enamel finish.

Stock No.	Mfr's. No.		Fact List EACH
2V 400	971Y	Yellow body, red and brown decorations	$0.85
2V 401	971YP	Yel. perch, scale finish	.85
2V 402	G971SG	Saturn Green	.95
2V 403	971F	Frog finish	.85
2V 404	971RH	Red Hd., white body	.85
2V 406	971SF	Scale finish, green	.85
2V 407	G971FO	Fire Orange	.95
2V 408	G971NR	Neon Red	.95

One dozen in a box.

Bass Baits

Heddon

Heddon Midgit Digit

A small bait made especially for light, whippy rods. Fast sinking with lively action. Length, 1¾ inch, weight, 2/8 oz. Two No. 5 treble hooks.

Stock No.	Mfr's. No.	Color		Min. Retail EACH	Fact. List EACH
2V 268	9020RH	White & Red	S	$1.25	*$1.35*
2V 269	9020XRW	Rd. & Wh. Shore	S	1.25	*1.35*
2V 270	9020L	Yellow Perch	S	1.25	*1.35*
2V 271	9020XRG	Grn. Shore Minnow	S	1.25	*1.35*
2V 272	9020S	Shiner Scale	S	1.25	*1.35*
2V 273	9020XBW	Blk. & Wh. Shore	S	1.25	*1.35*
2V 274	9020XRY	Yellow Shore	S	1.25	*1.35*

One in a box

Go-Deeper River-Runt

Standard

Transparent bodies, indestructible finish. Fills a long-felt need of a bait that goes deep for lazy big ones. Ideal for Wall-Eyes, Jack, Salmon and Bass, when in deep water. The extra large spoon lip makes it dive to the bottom even in 15 to 20 feet of water. Length overall, 3½ inches; weight, 3/5 ounce.

Stock No.	Mfr's. No.	Color		Min. Retail EACH	Fact. List EACH
2V 179	D9113XS	White Red Head	S	$1.35	*$1.50*
2V 180	D9119XRG	Green Shore Minnow	S	1.35	*1.50*
2V 181	D9119XBW	Black & White Shore Minnow	S	1.35	*1.50*
2V 182	D9110M	Pike Scale	S	1.35	*1.50*
2V 184	D119L	Yellow Perch	S	1.35	*1.50*
2V 185	D9119XRY	Yellow Shore Min.	S	1.35	*1.50*
2V 186	D9119XRS	Silver Shore Min	S	1.35	*1.50*

One in a box

Heddon—Floating River-Runt Spook

Floating Model—For use in very weedy waters or lakes full of sunken logs. It floats when at rest. Have transparent, indestructible finish. A true "fish flesh" appearance. Equipped with 2 treble hooks with special hook fly device. Length, 3⅛" weight 3/5 oz.

Stock No.	Mfr's. No	Color		Min. Retail EACH	Fact. List EACH
2V 150	9400L	Yellow Perch	S	$1.25	*$1.35*
2V 151	9400M	Pike	S	1.25	*1.35*
2V 152	9400RH	White, Red Head	S	1.25	*1.35*
2V 153	9400XBW	Black and White Shore Minnow	S	1.25	*1.35*
2V 154	9400XRG	Grn. Shore Minnow	S	1.25	*1.35*
2V 155	9400XBP	Pearl and Black Shore Minnow	S	1.25	*1.35*
2V 156	9400XRS	Silvr. Shore Minnow	S	1.25	*1.35*
2V 157	9400XRY	Yellow Shore Min.	S	1.25	*1.35*
2V 158	9400RB	Rainbow	S	1.25	*1.35*
2V 159	9400XRW	Red & Wh Shr. Min.	S	1.25	*1.35*

Each plug in attractive box.

Heddon—Sinking Model River Runt-Spook

Sinking Model—A small, compact, lively lure for all game fish. Transparent with indestructible finish. A true "fish flesh" appearance. A slow sinking plug with attractive wiggling motion. Length, 2¾" weight ⅛ oz.

Stock No.	Mfr's. No.	Color		Min. Retail EACH	Fact. List EACH
2V 167	9119L	Yellow Perch	S	$1.25	*$1.35*
2V 168	9119M	Pike	S	1.25	*1.35*
2V 169	9119P	Shiner Scale	S	1.25	*1.35*
2V 170	9119XRG	Green Shore Minnow	S	1.25	*1.35*
2V 171	9119XRS	Silver Shore Minnow	S	1.25	*1.35*
2V 172	9119XRY	Yellow Shore Minnow	S	1.25	*1.35*
2V 173	9119XBW	Blk & Wh. Shore Min	S	1.25	*1.35*
2V 174	9112	White, Red Head	S	1.25	*1.35*

Each plug in attractive box.

Heddon—Sinking—Jointed—River-Runt Spook

"RIVER-RUNT SPOOK"
(Jointed Sinker)

Sinks slowly. Has lively action with plenty of tail kick. Bass, walleyes and pike cannot resist it. Excellent for brown, rainbow and lake trout. Two No. 1 treble hooks. Weight ¾ oz., length 2¾ inches.

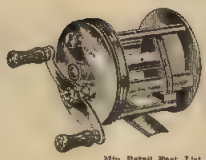
Stock No.	Mfr's. No.	Color		Min. Retail EACH	Fact. List EACH
2V 192	9330L	Yellow Perch	S	$1.35	*$1.50*
2V 193	9330RH	White, Red Head	S	1.35	*1.50*
2V 194	9330XRG	Green Shore Minnow	S	1.35	*1.50*
2V 195	9330XRY	Yellow Shore Minnow	S	1.35	*1.50*
2V 196	9330XRS	Silver Shore Minnow	S	1.35	*1.50*
2V 197	9330XRW	Red & Wh. Shore Min.	S	1.35	*1.50*
2V 198	9330XBW	Blk. & Wh. Shore Min.	S	1.35	*1.50*

One in a box; one dozen in a carton.

Fresh Water Reels
Bait Casting Reels
Pflueger

Pflueger—Trump

Level Wind Anti Back-Lash — Built for long life. Light weight, distinctive in design. Has jeweled tension of cups, hardened steel pivots, fancy balanced crank with pyralin handles. Simplicity of design and smoothness of operation of anti back-lash are outstanding. High dianodite finish is applied to entire reel

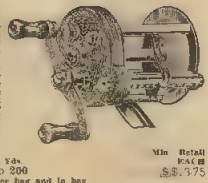


Stock No.	Mfr's. No.	Cap. Yds.
2V 5575	1943	100

Min. Retail Fact. List EACH $5.45 $6.75

Pflueger—Summit

Jeweled Level Wind — Anti Back Lash — Stands alone in its class. All parts highly polished Diamolite finish on fancy nickel silver. Pyralin mottled handles to harmonize with the above finish. Quadruple multiplying gear is made of tempered bronze. Pivot bearings of phosphor bronze. Jewels are made of genuine scarlet agate. Sliding click button, 1⅞" diameter. 2" plate. Weight, 8¼ oz.

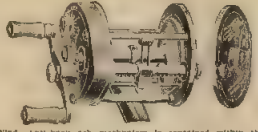


Stock No.	Mfr's. No.	Cap. Yds.
2V 5578	1993	75 to 200

Each reel in fine leather bag and in box

Min. Retail EACH $8.375

Pflueger—Supreme



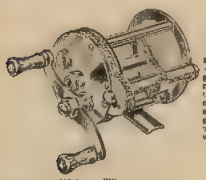
Level Wind—Anti-back-lash mechanism is contained within the reel, automatically thumbs the spool and stops the same the instant the bait strikes the water, thus preventing all possibility of back-lashing. The adjusting screw with dial regulator is so constructed that any tension desired can be secured by simply turning the adjusting screw right or left and can be thrown off altogether thereby making an open level winding reel. Anti-back-lash made of nickel silver, light and strong. Extra pawl in each.

Stock No.	Mfr's. No.	Cap. Yds.	Pillar In.
2V 5584	1573	60 to 100	1¾

Min. Retail EACH $32.95

Pflueger—Akron

Level Wind Anti Back Lash —Quadruple multiplying with genuine jeweled oil cups and non corrosive Diamolite Polish Anti back lash lever is contained entirely within reel and can be thrown off altogether making a regular open reel. Capacity 60 to 100 yards



Stock No.	Mfr's. No.	Pillar In.	Plate In.
2V 5579	1893½	1⅛	2
2V 5580	1894	1⅜	2¼

Min. Retail EACH $ 9.95 $10.45

Shakespeare

Shakespeare—Light Wondereel

A new light weight "no thumbing" reel. Modern two-tone styling with green anodized aluminum end plates and smoky pearl plastic head ring. Level wind. Cork arbor

Stock No.	Mfr's. No.	Cap. Yds.	Ga. Each
2V 5881	1921	100	7

One in a box

Fact List EACH $18.00

Pflueger—Skilkast

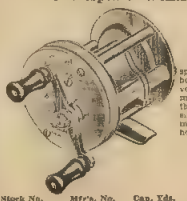
Same general construction as the Akron, except for the "mechanical thumber" which prevents backlash and eliminates thumbing. An ideal reel for beginners and professionals alike.

Stock No.	Mfr's. No.	Cap. Yds.
2V 5589	1983	60-100

One in a box

Min. Retail EACH $11.25

Shakespeare—DeLuxe Wondereel



Casting skid built in with spool shaft bearing which perbearing invention which prevents back lashes. New kind of mits long casts yet does not let the line outrun the bait. Nickel silver head and tail plate with mottled black and white plastic head ring.

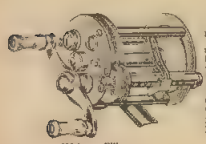
Stock No.	Mfr's. No.	Cap. Yds.
2V 5870	1922	100

One in a box.

Fact List EACH $13.00

Pflueger—Nobby

Level Wind—Anti-Back-Lash Satin Finish Nickaloid, trimmed in polished Diamolite. Genuine agate jeweled bearings, quadruple multiplying. Phosphor bronze bearings. Dust for hard service and long life. Light spool adds to distance and accuracy of cast. Adjustable back-lash. Fancy balanced handle. Extra pawl carried in reel. Capacity, 80 yards.



Stock No.	Mfr's. No.	Pillar In.	Plate In.
2V 5572	1963	1⅜	2

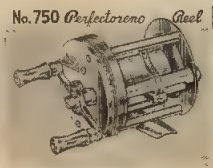
One in a box.

Min. Retail EACH $11.75

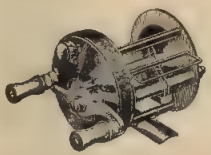
Fresh Water Reels
Bait Casting Reels
South Bend—Level Wind

Casting

Level wind anti-backlash. Not necessary to regulate the speed or stop the spool. No snarls or backlashes. The controlled spool enables the beginner to start right off casting. Chromium plated hard brass frame. Phosphor bronze gears and bushings. Nickel silver level wind screw. Chrome plated crank. Aluminum spool with cork arbor. Diameter of spool 1⅝ inches. pillar 2¾ inches.



Stock No.	Mfr's. No.	Cap. Yds.	Oz. Each	Min. Retail Fact. List EACH
2V 5917	666	100	7	[S]$9.65 *$11.00*



Level wind with adjustable anti-backlash feature. Jeweled bearing bronze bushings and gears. Head cap and tail plate ringed with brown pearl plastic. Quadruple multiplying.

Stock No.	Mfr's. No.	Cap. Yds.	Min. Retail EACH
2V 3911	900	100	[S]$22.50

One in a box.

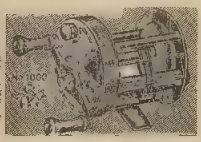
Perfectoreno

Three-piece, take down construction. Anodized maroon aluminum frame. Smokey pearl plastic head cap ring, grips to match. Phosphor bronze bearings and bushing. Quadruple multiplying spiral cut gears. Aluminum spool with cork arbor. Diameter of spool, 1¼ inches. pillar length, 1¾ inches.

Stock No.	Mfr's. No.	Cap. Yds.	Oz. Each	Fact. List EACH
2V 5909	777	50	6	[S]*$12.00*

One in a box.

Level wind anti-back lash. Three piece take-down construction. Amber pearl head cap ring and bail shape grips. Chrome plated frame, nickel silver bearings and end plate. Spur gear cut, quadruple multiplying gears; special spring closure sliding type spool caps and crank cut. Spool diameter 1⅛ inches. Pillar length 1⅝ inches.



Stock No.	Mfr's. No.	Cap. Yds.	Oz. Each	Fact. List EACH
2V 5910	1000	100	9	[S]*$16.00*

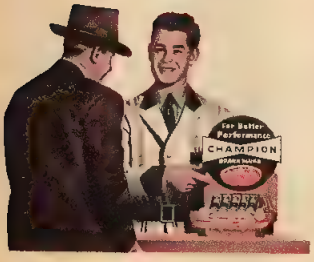
One in a box.

Here's a Dependable Spring Tonic For Your Car

NEW

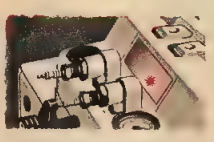
CHAMPION

Spark Plugs



BE A CHAMPION DRIVER... *Re-Vitalize Your Car's Performance!*

When your car gets the green light does it really get up and "GO"? Follow the experts and install a new set of clean, crisp, hard-hitting Champion Spark Plugs!



See with your own eyes how your old plugs compare to new Champions! Have your Champion dealer check them on his scientifically designed cleaner and tester.

Your best assurance that Champion represents the ultimate in quality, value and dependability is that it has been America's favorite for over a quarter century!

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

Listen to the CHAMPION ROLL CALL . . . Harry Wismer's fast sportscast every Friday night, over the ABC network

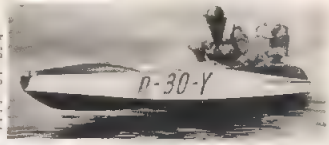
Stable, Sturdy... and SPEEDY

Champions for Pleasure... Much Faster per Horsepower!

Yes, now you can own a pleasure boat with the strength and stamina ... and *speed* ... of a marathon racer! Now the whole family can enjoy outings in perfect comfort and safety.

SPEEDLINERS ... precision built throughout ... are outstanding in appearance, seaworthiness and performance. Their sound construction of finest materials means long service, low upkeep. 17 sleek models to choose from ... one for every boating need!

Five passenger, 14 foot "TROPHY." Plenty of room for all for fun!



Another win for Bob Meyer, brightest star in Stock Utilities and his SPEEDLINER! Champ of Class E, National, Class D, Hudson River, Overall Class D, Winnebagoland.

Enjoy yourself in SPEEDLINERS, built to APBA Stock Utility specifications. Compare this mighty 1950 record of winning performances: First, classes E, F and JV in the Nationals; First, class D Colorado River Marathon, Needles, Calif.; First, class D Hudson River Marathon; First, overall and class D Winnebagoland Marathon; First, class A Patuxent River Marathon; Grand prize and class B, Greenville-Vicksburg Mississippi River Marathon; plus five world records in 1949!

Famed far and wide for their many victories and records, the new SPEEDLINER models are improved for 1951. *Write today for complete information, literature, prices, performance data.*

GENERAL MARINE COMPANY

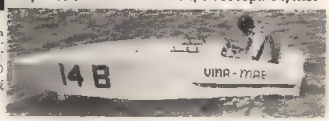
Dept. 414 Sixth and Oak St., St. Joseph 14, Mo.

SPEEDLINER

Fishing Boats and Runabouts

Hundreds of trophies ... and always a SPEEDLINER! Bob Meyer has been a leading competitor for 23 years! He counts on more speed per horsepower from his SPEEDLINER.

Inboard runabout Vina Mae III. 23 firsts, one second in 22 races. Won 3 record holder, class B inboards, one mile (50.43 mph) and five mile (55.18 mph). Another SPEEDLINER champ!



and constructed to meet emergency situations must always be kept in top condition. There is no situation that arises at sea that makes such meticulous demands on the integrity of gear and finesse and decision in seamanship as the emergent one.

Never set a drogue over the stern of your boat concerning which there is the least scintilla of doubt as to efficiency of design or strength of gear. Failure in this respect in the breakers may never give you an opportunity for recapitulation or regrets. This was the reason for the development of the Hawthorne drogue, for it needs no care. Again, the motor boat captain makes his own decision.

About the Table

The following table, for use in the selection of materials, is furnished as an advisory guide only. Special circumstances and conditions may easily dictate the use of either heavier or lighter gear or combinations of the two. Constructional peculiarities of individual motor boats may easily alter both the type and size of gear. As the boatman and his crew become proficient in the use of the drogue it will be found that there is an urge toward the constant use of lighter gear. The combination of light drogue gear and expert seamanship is productive of highly efficient, safe performance in the heaviest of breakers. This applies with particular emphasis to modern, semi displacement type motor boats. In the most amazing situations, at times, in heavy breakers, it takes but the instantaneous release of the trip in correct combination with the terrific thrust of powerful torque, to pull a boat out squarely before the flying seas.

SIZE OF GEAR — CANVAS DIRECTIONAL-TYPE DROGUES

Boat Length (feet)	Weight Canvas (semi-disp.)	Weight Canvas (ful disp.)	Dia. Roping and Towline (semi-d sp.)	Dia. Roping and Towline (full disp.)	Trip Line (dia.)	Swivel	*Br. Strain (tow line)
42 to 45	#3, 4	#1, 2	1½ to 1⅝	1⅝	½	⅝	18,500 27,500
35 to 42	#3, 4	#3	1¼	1½	½	⅝	13,500 18,500
28 to 35	#4	#3	1¼	1½	⅝	⅞	13,500 18,500
20 to 28	#4, 5	#4	⅞	1	⅞	⅞	7,700 9,000
14 to 18	#6, 7 or 8	....	¾	....	⅝-⅞	¼	5,400

*Note: Breaking strain of drogue-roping and drogue towline given in pounds draw bar pull.

Breaking strain of various diameters of trip-line is as follows: ½-inch, 3,120 pounds; ⅜-inch, 1,080 pounds; ⅞-inch, 800 pounds; ¾-inch, 480 pounds. The sizes of drogue roping and towlines are recommended from the standpoint of both safety, ease and rapidity of handling and compromise. Where the best grade of manila is *continuously under working tension* working strains should not exceed 20 to 24 per cent of the breaking strain, however, in this any momentary tensions may exceed this percentage in perfect safety if the line is kept in condition equal to new and is in use only intermittently. The sizes of strands and rope sizes recommended for use in the table are figured to give a factor of safety of about (4). It is difficult to recommend the use of a size manila line that would be productive of a larger factor of safety for towlines, since such recommendation might entail the use of a diameter of line of such size as to militate against the assurance of rapid handling in heavy surf or breakers.

"HELLO SWEETHEART"

A Sensation of Standard's Star-Studded Line!

Terrific! TALKING MINIATURE DOLLS with HUMAN VOICE

$1.98 *Retail Price*

BRIDE

CINDERELLA

AR-DOLL *Creations*

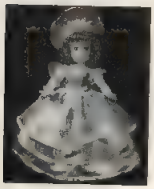
***Introducing* A NEW LINE**

"DEBUTEENS"

15 inch CHARACTER DOLLS

With exclusive Standard Doll features including:

- **Moving Eyes**
- **All Plastic Bodies**
- **Saran Hair that can be shampooed, combed, washed and curled.**



BRIDESMAID

CARMEN

GLAMOUR GIRL

ALICE IN WONDERLAND

AR-DOLL 8" MINIATURE CHARACTERS

. . The industry's most exclusive variety Brides, Bridesmaids, Dolls of All Nations, Famous Characters of Fact and Fiction, now available with moving eyes as well as lashes.

Revolving Musical Dolls Available in All Styles

Visit Us at The Toy Show
HOTEL McALPIN
Room 1008
and "*Hear Her Talk*"
Buyers will receive valuable **FREE SURPRISE PACKAGE!**

1951 CATALOGUE ON REQUEST

STANDARD DOLL CO.

36 EAST 22ND STREET, NEW YORK 10, N. Y.

OVER A QUARTER CENTURY OF QUALITY, VALUE AND SERVICE!

FIRST BASEMAN MITS

Rip Collins Model

Oiled cowhide. Flat bound edges—Triple net web. Full felt pad. Fully laced edges
No. BM9 ..... Each $5 00

Sam Leslie Model

Tan cowhide. Flat bound edges—Leather laced. Special net web. Full felt pad.
No. BM12 ..... Each $6.50
No. BM12RH Right Hand ..... Each 6.50

Rudy York Model

Tan oiled cowhide. Quadruple trap webbing. Full felt pad. Leather lacing. Full leather lined
No. BM19 ..... Each $8.50

Stan Musial Model

Oiled cowhide. Quadruple web. Full cowhide lining. Full felt pad. Roll leather binding. Leather laced.
No. BM20 ..... Each $13.00

SOFTBALL GLOVES

Softball Fielders Glove

Seams welted. Tan cowhide—closed at the wrist. Hand sewed felt heel Double tunnel webs between thumb and forefingers.
No. SBK .. . . . . Each $7 25

CATCHERS MASK

Clear vision, sunshade model. Wide ear protecting, dull finished, heavy steel wire frame with welded joints. Well padded face and chin cushions, removable leather sunshade laced to frame. Adjustable elastic web head straps.
No. 11 . .. . Each $6 00
One in a box

Baseball and Softball Mask

A light weight full vision mask popular for both baseball and softball. Open vision frame of black enameled steel wire, welded joints. Padded face and chin cushions laced to frame. Adjustable elastic web straps
No. 12 . .. . Each $4.35
One in a box

Boy's Mask

For the small boy Black enameled wire frame with welded joints. Padded face cushions, leather chin piece, elastic strap
No. 13 . . .. Each $1 15
One in a box

BODY PROTECTORS

Regulation

Regulation model Extra strong khaki army duck, cross stitched and firmly stuffed with finest quality kapok, full leather bound. Adjustable leather back strap with snap fastener, web shoulder strap
No 1 . . . . Each $11 85

Boy's

Khaki colored twill. Cross stitched and firmly stuffed Adjustable web back and shoulder straps with anchor hook
No. 2 ..... Each $5 35

CATCHERS' LEG GUARDS

Regulation

Corrugated dome molded, white felt padded knee cap, corrugated molded fibre leg piece with inside gram leather suspension. Roll leather, white felt padded knee joint, white felt padded corrugated molded fibre instep protector, white felt padded tan leather ankle protection. Adjustable elastic straps with quick action buckles
No. 1 ....Per pair $11 95

Boy's

Molded fibre corrugated leg piece with inside leather suspension Padded molded fibre knee cap and ankle piece. Tan leather instep protector padded with white felt. Elastic straps and buckle.
No. 2 . .. . Per pair $7 75

FIELDERS GLOVES

Charlie Keller Model

Junior size fielders glove. Oiled cowhide—flat imitation banding. Palm leather lined. Closed at the wrist. Felt heels—tunnel web. Leather laced between thumb and forefinger.

No. J42 ..... Each $4.00

Frankie Crossetti Model

Full size fielder glove. Oiled cowhide-double tunnel web. Palm and thumb leather lined. Welted seams. Closed at the wrist. Felt heels.

No. FC ..... Each $5.25
No. FC-RH Right hand . . . . Each 5.25

Chet Laab Model

Major Lague Players Fielders Glove. Tan cowhide—double tunnel web. Full leather lining. Tan welted seams. tan binding. Closed at the wrist.

No. G55 ..... Each $6.50

Pee Wee Reese Model

Oversize major league fielders glove. Oiled cowhide—full leather lining. Felt heels—welted seams—roll bound edges. Laced at the wrist.

No. PWR ..... Each $7.75
No. PWR-RH Right Hand .....Each 7.75

Vern Stephens Model

Major league players model, three finger fielders glove. Made of selected oiled willow cowhide. Seams welted—full leather lining. Rolled bound edges. Laced at the wrist. Large size trap web between fingers and thumb. Leather lacing on backs of fingers. Full felt heel.

No. VS . . . . Each $9.00

Charlie Keller Model

Oversize major league fielders glove. Oiled cowhide. Full leather lining—felt heels. Tan welt—Roll bound edges. Laced at the wrist.

No. CK ..... Each $9.00
No. CK-RH Right hand ..... Each 9.00

Pete Reiser Model

Streamline construction. Golden tan cowhide. Full horsehide lining. Felt heels—Tan welt. Roll bound edges. Laced at the wrist.

No. BPR . . . . . Each $11.00

Lou Boudreau Model

Streamline construction three finger fielders glove. Made of oiled willow cowhide. Full cowhide lining. Large size trap between fingers and thumb. Welted seams. Roll leather bound edges. Laced at the wrist. Full inner felt heel.

No. LB ..... Each $12.00

CATCHERS MITTS

Rolly Hemsley Model

Full junior size catchers mitt. Oiled cowhide. Full felt pad—Laced edges.

No. 220 . . . . . Each $5.50

Frank Hayes Model

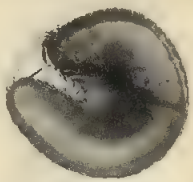
Professional model molded mitt. Tan cowhide. Oiled palm. Hand made felt pad—Flat bound edges. Leather laced.

No. M23 . . . . . Each $7.75

Andy Semenick Model

Professional model molded mitt. Oiled cowhide. Hand made felt pad—Strap and buckle. Leather laced. Roll bound edges.

No. M30 ..... Each $9.75
No. M30RH Right Hand ..... Each 9.75



Bill Dickey Model

Professional model molded mitt. Golden tan cowhide. Oiled palm. Hand sewn pad. Shearling protector at wrist. Roll leather binding.

No. M37 ..... Each $16.50

Steelcraft turns a sailor's life into the *Life of Reilly!*

The 28-footers make speeds up to 28 m. p. h.

Twin engines give the 35' Sedan a 24 m. p. h. top speed.

..and Steelcraft is the only boat so safe that insurance costs 30% less!

Dinette converts to double bed.

Your family is *so* much safer in a Steelcraft. Floating logs, submerged rocks and not-so-gentle berthing never worry Steelcraft owners. Knowing this, the world's largest insurer of pleasure boats has reduced full marine insurance rates 30%, *for Steelcraft owners only.* Add to this the savings of a hull with no seams to leak (or to caulk), no wood to splinter or rot. Small wonder Steelcraft is fast becoming America's number one cruiser! See them at the boat shows!

'Express 28' galley is complete.

5' Express cruiser main lounge.

Prettying up in the lavatory room.

Steelcraft®

STEELCRAFT BOATS, INC.

WEST HAVEN, CONN.

8 MODELS

- 20' Deluxe Utility
- 28' Sedan, Flying Bridge Express, Holiday Cruiser
- 35' Sedan, Express, Sport Sedan
- 46' Offshore Cruiser

Flying bridge ahoy!

New! STEWART-WARNER RADIOS

Nationally Advertised

STEWART SW WARNER

FM Offers clearer reception free from static and radio noises. A.M. covers full standard broadcast bands.

NEW...

STEWART WARNER 8 Tubes INCLUDING RECTIFIER

FM - AM TABLE MODEL RADIO

SHARP - CLEAR - FM Frequency Modulation RECEPTION

Smart trim plastic cabinet. Size, 9½" high, 14¾" wide, 8¼" deep. Newest system of FM reception to prevent natural static noise. Tuning range, FM band 88 to 108 megacycles; AM band 540 to 1600 Kilocycles. 6" PM dynamic speaker with high flux density has extreme wide-range response. 8 tube superheterodyne chassis including rectifier gives true tone and volume range. Built-in Line antenna. One of the finest FM and AM table model radios on the market today. A.C.-D.C. Retail 69.95

No. 1RSW9151A. Dealer's, each net 46.16.
Lots of 3, each, net **43.55**

With All Advanced Scientific Features for Superior TONE

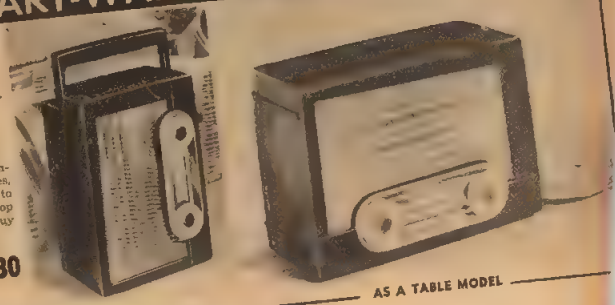
The New STEWART-WARNER 3 WAY PORTABLE RADIO

Dual Purpose Personal Portable Radio
(AC-DC or Batteries)
Can be used as a portable or table model radio.
Carrying handle fits snugly into cabinet when not in use.

5 TUBES, Including Rectifier

A smart-appearing plastic cabinet with finely engineered Stewart-Warner radio chassis—5 tubes, including selenium rectifier—coverage from 535 to 1600 KC—4" Alnico P. M. Speaker, built-in loop antenna. Cabinet size, 6¾" x 9½" x 4¾". The buy today in Radio Portables. A.C.-D.C. Retail 39.95

No. 1RSW9153A. Dealer's, each net 30.00.
Lots of 3, each, net **28.30**
(ADD 1.95 net FOR BATTERIES)



AS A PORTABLE — AS A TABLE MODEL

STEWART-WARNER

SUPER TABLE MODEL RADIO

● STREAMLINED PLASTIC CABINET ● BUILT-IN ANTENNA
● 5 TUBES INCLUDING RECTIFIER

Housed with the newest improved Stewart-Warner chassis. 5 tubes, including rectifier, with **Built-in** loop antenna. Powerful 4" speaker. Tuning range 535-1600 KC. Eye-appealing plastic cabinet, 14 3/16" x 9⅛" x 7⅜". In 3 popular colors

No. 1RSW9152A. Black. Retail, 28.95. Dealer's, each net 21.74.
Lots of 3, each, net **20.51**

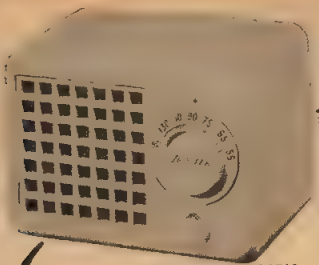
No. 1RSW9152B. Brown. Retail, 29.95. Dealer's, each net 22.48.
Lots of 3, each, net **21.21**

No. 1RSW9152C White. Retail, 29.95. Dealer's, each net 22.48.
Lots of 3, each, net **21.21**

TODAY'S TOP SELLERS

TRAV-LER TABLE RADIOS

EVERY MODEL A REAL STAND-OUT . . . BUILT FOR RUGGED USAGE AND MODERN GOOD LOOKS.



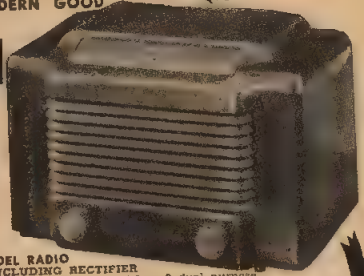
TRAV-LER TABLE MODEL RADIO
Excellent Performance

The outstanding value of the industry! Has 4 Tubes including rectifier, 2 dual purpose tubes, large 4" ALNICO V dynamic speaker, full vision dial, automatic volume control. Wonderful tone and amazing power for so compact a radio! Just 7"x5"x4½" deep. A.C.-D.C. Smart durable plastic case, walnut and ivory cases. Underwriters' Laboratories approved.

No. 1RT5056W. Walnut. Retail 14.95. Dealer's, each net **11.26**

No. 1RT5056I. Ivory. Retail 15.95. Dealer's, each net **11.98**

NATIONALLY ADVERTISED

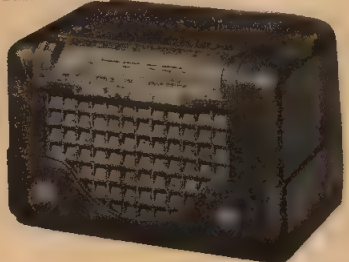


TRAV-LER TABLE MODEL RADIO
5 TUBES INCLUDING RECTIFIER

Gives 6 tube performance — rectifier 2 dual purpose tubes give 6 tube performance; powerful Alnico V dynamic speaker, illuminated rectangular slide rule dial, built in antenna. Smart plastic modern cabinet with attractive horizontal louvre grille. 10" x 8¾" x 6". Underwriters' Laboratories Listed. A.C., D.C. operation.

No. 1RT5015W. Walnut. Retail 19.95. Dealer's, each net **14.45**

No. 1RT5015I. Ivory. Retail 21.95. Dealer's, each net **15.87**



TRAV-LER DELUXE TABLE MODEL RADIO
6 TUBES INCLUDING RECTIFIER

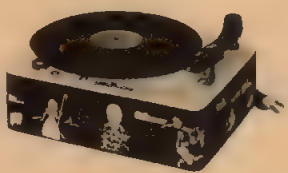
Finest of Trav ler table model radios! Plastic cabinet with new smart latticed grille. Extra sensitive superheterodyne circuit for distant fun ing. 6 tubes including rectifier—2 tubes are dual purpose giving 7 tube performance; large 6-inch Alnico V dynamic speaker, built in antenna easy-to-read continental type dial, 10" x 6½" x 8⅛". Underwriters Laboratories Listed A.C. or D.C.

No. 1RT5066W. Walnut. Retail 27.95. Dealer's each net **20.17**

No. 1RT5065I. Ivory. Retail 29.95. Dealer's, each net **21.67**

● Excellent Tone Quality!

TRAV-LER Deluxe ELECTRIC PHONOGRAPH



A fine modern designed electric phonograph with excellent reproduction. Has built in amplifier, 2 tubes including rectifier and powerful amplifier. New P.M. dynamic speaker with Alnico No. 5 permanent magnet for improved tone quality and performance. Smooth, quiet operating, self starting electric motor with 8" turn table. Light weight crystal pickup arm, with arm rest. Plays any standard 78 RPM. 10" or 12" phonograph record. Cabinet is covered with simulated leather and has colorful nursery rhyme characters on all four sides. Plastic speaker grille. Operates on 110-125 volts, 60 cycle AC only. Retail 23.95.

No. 1RT7036. **17.45**
Dealer's, each net...

Limited Time Only: Traveler electric phonograph No. 1RT7036 comes complete with $10.00 of R.C.A. unbreakable children's records.

TRAV-LER 3 WAY PORTABLE RADIO

- LIGHTWEIGHT, ATTRACTIVE EXCELLENT RANGE.
- OPERATES ON A.C.-D.C., OR BATTERY
- SMALL AND COMPACT, ONLY 5¼" x 8½"x 4¼".

The latest design in portable radios. Has 4 tubes plus rectifier, 2 dual purpose tubes, giving 6 tube performance. New powerful P.M. Speaker improves tone quality and performance. Attractive airplane type dial with calibrated wave band, for easy tuning. Automatic volume control circuit eliminates blasting and fading. Has standard broadcast band. Cabinet is smart new luggage design, with attractive plastic front panel, and simulated top and sides — leather handle. Has built in loop antenna. Operates on 105 to 125 Volt, 50-60 cycles A.C.-D.C. or on Batteries. Convenient power change-over switch located on the front panel along side tuning knob and volume knob. Weighs less than 5 pounds. Prices less batteries. Retail 29.95.

No. 1RT5022. **20.17**
Dealer's, each net ...

ADD 1.11 FOR BATTERIES

TRAV-LER 3-WAY PORTABLE RADIO A.C.-D.C., and BATTERY

'Storybook Dolls' by NancyAnn

BRIDAL SERIES • SEASON'S SERIES
NURSERY RHYME SERIES • FAIRYTALE SERIES
DOLLS OF THE DAY SERIES • DOLLS OF THE MONTH SERIES
FAIRYLAND SERIES • MOTHER GOOSE SERIES
OPERETTA SERIES • ALL TIME HIT PARADE SERIES
COMMENCEMENT SERIES

MOVABLE EYES... that follow you

NANCY ANN STORYBOOK DOLLS, INC.

MANUFACTURERS OF STORYBOOK DOLLS
UNBREAKABLE PLASTIC—MOVABLE HEAD, MOVABLE ARMS & MOVABLE LEGS

1298 POST STREET • SAN FRANCISCO 9, CALIFORNIA

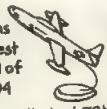
Manufacturer's Representatives

EAST: Joseph J. Barnett, Inc., Room 559, 200 Fifth Avenue, New York 10, N. Y
WEST: Leo Scherrer Company, 2840 West 93rd St., Seattle 7, Washington
MIDWEST. Hugh D. Kenney, 1443 Merchandise Mart, Chicago, Illinois
SOUTH: Melville Marx, Governor Clinton Hotel, New York 1, N. Y

Highlights of the Toy Fair

★ ★ ★

STROMBECKER SOLID WOOD MODEL KITS



Planes - Ships - Trains ...including the newest StromBecKer model of the Lockheed F-94

Advertised price, complete with stand, 79¢

★ ★ ★

ZOO-APART and the new **Toddler Train**

Pre-school hits that help you to keep in favor with the small fry

★ ★ ★

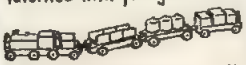
BILL DING with Clowns

Perennial favorite...great novelty balancing game ...a steady, profitable toy item, year after year

★ ★ ★

NEW HOBBY TOYS and **WOODEN PLAYTHINGS**

...including Train-APART and the famous pull-trains... favorites with young America



(and Dads and Mothers, too!) from Calif. to Maine

StromBecKer

FIRST IN SOLID MODELS

STROMBECK-BECKER MFG. CO., MOLINE, ILLINOIS
200 Fifth Avenue, New York City

Structo

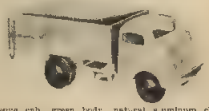
Wrecker Truck

Red cab, grey body, natural aluminum chassis, crank operated winch with steel chain, also tow chain, six rubber wheels, front wheels adjustable, motor brake, sturdy clock spring motor. Body of heavy gauge steel.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
		Inches				
4H 4363	322	12⅜	5⅝	5⅞	40	$4.25

One in a box. Six in a carton.

Package Delivery Truck



Color—orange cab, green body, natural aluminum chassis. Body reinforced, 14 gauge stakes, 6 rubber wheels.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Each	Fact. List EACH
		Inches				
4H 4356	603	13	5⅛	5	6	$3.60

One in a box, 6 in a carton.

Barrel Truck

Red cab, dark blue body, natural aluminum chassis, body reinforced 14 gauge stakes, six rubber wheels, front wheels adjustable, motor brake, two oil drum banks, sturdy clock spring motor. Heavy gauge steel body.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
		Inches				
4H 4364	811	12⅜	5⅝	5	46	$4.29

One in a box. Six in a carton.

Transport Trailer

Rear doors open. Trailer reinforced 14 gauge stakes. Retractable landing gear, 14 rubber wheels. Floating tandem duals.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
		Inches				
4H 4360	700	21⅝	5⅝	7⅜	30	$5.49

One in a carton.

Motor Express Truck

Color—orange cab, grey body, natural aluminum chassis. Body reinforced, 14 gauge stakes, 6 rubber wheels.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Each	Fact. List EACH
		Inches				
4H 4370	601	12¾	5⅛	5	6	$3.60

One in a box, 6 in a carton.

Steel Cargo Trailer

Trailer reinforced 14 gauge stakes. Retractable landing gear, 14 rubber wheels. Jouting tandem duals.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
		Inches				
4H 4351	702	20⅝	5⅝	5⅝	63	$4.98

One in a carton.

Overland Freight Trailer

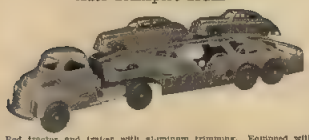
Rectangle landing gear. Trailer reinforced 14 gauge stakes. 14 rubber wheels. Floating tandem duals.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
		Inches				
4H 4352	704	20⅝	5⅝	5⅝	62	$4.98

One in a carton.

Hubley

Auto Transport Truck



Red tractor and trailer with aluminum trimming. Equipped with four assorted color plastic cars, also runway to be used for running cars on the trailer. Transport and cars all furnished with black rubber wheels.

Stock No.	Mfr's. No.	Lgth. In.	In Doz.	Cat. List EACH
4H 2193	501	18	40	$5.10

One-half dozen in a carton.

Telephone Truck

Olive green with aluminum trimming. Equipped with red trailer and telegraph pole, nickel winch and boom, three digging tools. Rubber wheels.

Stock No.	Mfr's. No.	Lgth. In.	In Doz.	Cat. List EACH
4H 2194	478	10½	24	$1.85

One dozen in a carton.

Telephone Truck

Meta. construction. Olive green metal cab and body. Bright lettering and trim. Removable boom in rear. Turning crank handle raises or lowers rope and hook. Top of truck slides back to cover open half of rear. Ivory colored plastic ladder. Three bright metal digging tools fit saddle truck. Red metal two wheeled pole trailer hooks on rear of truck. 14 inch pole removable. Black rubber wheels, dual in rear.

Stock No.	Mfr's. No.	Lgth. In.	In Each	Cat. List EACH
4H 2886	504	12½	1	$4.00

One in a box. Six in a carton.

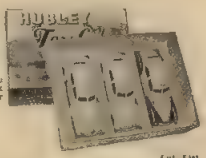
Log Truck

Metal construction. Orange cab and trailer with bright trim. Bright metal chassis, chains and stakes on trailer. Chassis enclosed underneath with fenders, load. Trailer coupled to swivel axle one 9½ in. long, each 12 inches long. Wheels are independently mounted to roll over stones or obstacles. Black rubber wheels.

Stock No.	Mfr's. No.	Lgth. In.	In Each	Cat. List EACH
4H 2385	505	18	1	$4.00

One in a box. Six in a carton.

Taxi Cab Set



Three taxi cabs, scale model. Crankie and hack combination. Black rubber wheels.

Stock No.	Mfr's. No.	Lgth. In.	In Doz.	Cat. List EACH
4H 2201	10	7	21	$1.10

One dozen in a carton.

Tractor

Scale model. Red with nickel man. Black rubber wheels with painted disc. One in a box.

Stock No.	Mfr's. No.	Lgth. In.	In Doz.	Cat. List EACH
4H 2191	473	6¾	15	$1.05

One dozen in a carton.

Road Scraper

Yellow with aluminum trimming, nickel scraper. Front wheels operated by steering wheel. Black rubber wheels.

Stock No.	Mfr's. No.	Lgth. In.	In Doz.	Cat. List EACH
4H 2184	481	10¾	19	$1.30

One in a box. One dozen in a carton.

Road Roller

Orange with aluminum trimming, nickel wheels. Front wheels operated by steering lever.

Stock No.	Mfr's. No.	Lgth. In.	In Doz.	Cat. List EACH
4H 2183	480	10¼	19	$1.35

One in a box. One dozen in a carton.

STRUCTO "LIVE-ACTION" TOYS

No. 702 STEEL CARGO TRAILER

Blue Cab, Red Trailer, Natural Aluminum Chassis . . . Trailer reinforced 14 gauge stakes . . . Retractable landing gear . . . 14 rubber wheels . . . Floating tandem duals . . . Packed and shipped individually . . .
L. 20-3/4", W. 5-5/8", H. 5-3/8".

Rt. $4.69 ea. Doz. $37.50

No. 250 AERIAL FIRE TRUCK

Color: Red with Yellow Ladders . . . Bell rings . . . Three 15" extension ladders raised or lowered by crank mechanism. . . Hood raises revealing "Fireball" motor . . . Rubber wheels . . . Packed and shipped individually . . .
L. 24", W. 6-3/4", H. 6-1/4".

Rt. $4.29 ea. Doz. $34.00

No. 822 WRECKER TRUCK (Wind-up)

Red Cab, Grey Body, Natural Aluminum Chassis . . . Crank operated winch with steel chain, also tow chain . . . 6 rubber wheels . . . Front wheels adjustable . . . Motor brake . . . Structo's own sturdy clock spring motor . . . Individually corrugated boxed, 6 to shipping carton . . .
L. 12-1/8", W. 5-5/8", H. 5-3/16".

Rt. $4.29 ea. Doz. $34.00

No. 105 HEAVY-DUTY STEAM SHOVEL
(Patented)

Color: Blue . . . Crank controls automatic unloading of shovel . . . Cab revolves . . . Rubber tractor treads . . . Packed and shipped individually . . .
L. 21-1/2", W. 6-1/8", H. 7-3/4".

Rt. $3.49 ea. Doz. $28.00

No. 700 TRANSPORT TRAILER

Blue Cab, Red Trailer, Natural Aluminum Chassis . . . Rear doors open . . . Trailer reinforced 14 gauge stakes . . . Retractable landing gear . . . 14 rubber wheels . . . Floating tandem duals . . . Packed and shipped individually . . .
L. 21-3/8", W. 5-5/8", H. 7-3/8".

Rt. $6.49 ea. Doz. $52.00

No. 500 UTILITY TRUCK
(Patents Pending)

Color: Red Cab with Blue Body . . . Travel bucket raised by crank . . . Top opens automatically to allow bucket to dump load . . . Truck also dumps . . . Rubber wheels . . . Hood raises revealing "Fireball" motor . . . Packed and shipped individually . . .

L. 21-1/2", W. 6-1/2", H. 7-3/8".

Rt. $5.49 ea. Doz. $44.00

No. 402 MACHINERY TRUCK & STEAM SHOVEL (Patented)

TRUCK — Color: Orange . . . Removable loading skid . . . Crank operated winch with steel chain . . . Hood raises revealing "Fireball" motor . . . Rubber wheels.
L. 21-1/2", W. 6-3/4", H. 6-1/4".
HEAVY DUTY STEAM SHOVEL — Same as No. 105 . . . Both toys packed and shipped as one unit . . .

Rt. $6.95 ea. Doz. $56.00

Sunbabe®

"real life" Baby Dolls

Drink-Wet Dolls

No. 10002 — 11" Sunbabe® with 3 Big Features. She drinks, wets and cries when squeezed. Fully jointed, movable head, arms and legs. 11 in. tall. Natural flesh colors and painted features. Comes dressed in diaper, with nursing bottle. Each in attractive cellophane window box. Packed 1 doz. in ctn.

Doz. $18.00

No. 10040 — Sunbabe "Se-Wee"® new, lovable, Ruth E. Newton designed 10 in. doll, in natural flesh color, soft rubber head and painted features; fully jointed. She drinks, wets, and cries when squeezed. Comes dressed in diaper; with nursing bottle. Each in attractive cellophane window box. Packed 1 doz. in ctn

Doz. $18.00

No. 10042 — Sunbabe "Cindy-Lee,"® new, adorable Ruth E. Newton designed 12 in doll, flesh color; soft rubber head, painted features; fully jointed. She drinks, wets, and cries when squeezed. Comes dressed in diaper; with nursing bottle. Each in attractive window box. Packed 1 doz. to ctn.

Doz. $24.00

No. 10000 — Sunbabe® Crying Stuffed Latex "Skin" Doll, 11 in. tall. Molded soft rubber head, painted features. Body stuffed with shredded foam rubber "Natural skin" texture gives realistic "feel." Doll has crying voice. Comes with diaper Each in cellophane bag. Packed 1 doz. in ctn.

Doz. $18.00

10-in. Amosandra

SUNBABE RUBBER DOLL

No. 10025 — Cute "Amosandra"® is 10 in. tall, soft rubber head with painted features, fully jointed. She drinks, wets, and cries when squeezed. Comes dressed in diaper; with nursing bottle. Each in attractive cellophane window box. Packed 1 doz. in ctn.

Doz. $18.00

JUMBO BEARS for JUMBO SALES

NO. 500 JUMBO BEAR

24" tall. Available in honey, panda, red and white, and blue and white. All high quality rayon plush, yarn hand embroidered nose, red felt tongue. Movable eyes that can't come out. Full plush circles in arms and legs. Beautiful, luxurious ribbon bow at neck. Packed 1 doz. per carton.

Doz. $36.00

NO. 2000 JUMBO BEAR

29" tall. Available in honey, panda, red and white, and blue and white. All high quality rayon plush, yarn hand embroidered nose, red felt tongue. Movable eyes that can't come out. Full plush circles in arms and legs. Beautiful, luxurious ribbon bow at neck. Packed ½ doz. per carton.

Doz. $42.00

the MILL game

Priced to SELL at just 98¢ retail

Packed 1 Dozen Per Attractive Sales-Snaring Display Carton

AN OLD-WORLD FAVORITE THAT'S TAKEN THE NEW-WORLD BY STORM!

It's the fascinating all-time favorite of the continent—new to the New World, but already sweeping the country! Mill board and red and white plastic pegs in a handsome pocket-fit plastic case for fun wherever it goes!

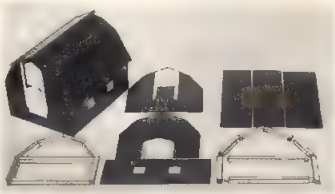
See The Multiple Line at The Toy Fair
Hotel New Yorker • Room 1028 • W. G. Schuman, Representative

WRITE FOR DETAILS TODAY!

MULTIPLE PRODUCTS CORP.
475 Fifth Ave. • New York 17 • MU 6-1659

M I Toys Boys-Barn

Self-Construction Kit Scaled for Molded Animals



$3.50 Retailer for No. 12 Barn
(Slightly higher West of Rockies)

No. 12 size as shown. Brilliant Green Imitation Shingle Roof. Bright Red Simulated Board Walls. Immediate shipment. Sample orders accepted. Packed two dozen to a case. Shipping Weight 23 lbs.

MARTIN INDUSTRIES
Producers of Natural Wood pull-toys and scaled barns.
P. O. Box 571, Wisconsin Rapids, Wisconsin

SUNLAND DOLLS ANNOUNCES STARTLING NEW DEVELOPMENT!

NEW DOLL HAS SOFT VINYL HEAD THAT TURNS!

100% more play value!

Feature SUNLAND DOLLS and watch your sales soar!

Sunland dolls are smartly designed, beautifully dressed, and popularly priced! For top profits, order all sizes and styles of Sunland Dolls!

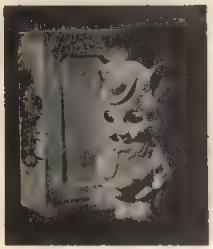
Sunland's sensational new doll has a soft vinyl head that turns as easily as you please! She flirts. She cries. She has a soft body with vinyl arms and legs. 15" tall. Dressed in panty, slip, ninon lace-trimmed dress and bonnet to match, socks and shoes. Assorted colors. Order now for guaranteed delivery!

SUNLAND DOLLS
OF CALIFORNIA

923 S. Los Angeles Street • Los Angeles 15, Calif.

New Yorker Hotel • Room 1171

DISNEY LATEX TOY FAVORITES by Sunruco



No. 11522—"Donald Duck," 6¼ in. high, Donald "quacks." Packed 1 doz. in ctn.

Doz $5.40

No. 11520—"Pluto" Dog, 6½ in. high, with whistle "voice." Packed 1 doz. in ctn.

Doz. $5.40

No. 11012—"Kitty-Be-Mew," Cat, 5¾ in. high, with squeeze-type voice. Packed 1 doz. in ctn.

Doz. $6.00

No. 11515—"Dumbo" Elephant, 4¼ in. high, with whistle "voice." Packed 1 doz. in ctn.

Doz $6.00

No. 601 MAGIC VAULT

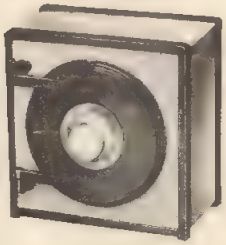
BANK-O-MATIC GUM BALL BANKS

6½" high, 4¾" wide. Insert coin and operate machine the same as actual vending machine - ball is ejected. Clear globe, base in assorted color combinations. 50 gum balls in separate bag. Boxed.

Doz. $12.00

Bubble Gum Refills for Bank, 120 to box.

Doz. Boxes $4.00



MYSTIFYING ACTION BANK. A bank that mystifies anyone not in on the secret! Just turn the dial, stop at the magic number, the vault will open. Put coins in the drawer and they disappear into the magic vault.

Doz $8.00

Highly polished, stainless steel finish. Plastic window. No sharp edges.
Heavy gauge steel. Size, 7¼ x 6½ x 7½ in.

No. 248 Doz. $30.00

No. 66 METAL DOLL HOUSE
Superior

Six room doll house 28 1/2 in. long, 15 3/8 in. wide. Has two outside terraces, garage with lifting door, swimming pool with water slide, lower windows and doors open. Complete with 27 pieces of large size plastic furniture as illustrated. Bright four color lithography.

LIST 6.00

No. 201 JUNIOR TEA SET

30-piece, service for four tea set. Durable, washable life-size plastic. Hand decorated with double brush stroke in three color floral design. Includes tea pot and table cover. Red, Yellow, Green and Blue asst. to display box.

LIST 2.29

No. 1730 DOLLY NURSE KIT
Hassenfeld

Features a charming plastic patient to which the young nurse can give her medical attention. All necessary toy instruments and equipment in luggage style box that has metal lock and handle. Size 13 1/4 x 8 1/4 x 2 1/2 in.

LIST 1.00

No. 1340 DOCTOR KIT
Hassenfeld

This doctor set has everything. Every toy medical item needed for days of play. Beautifully packaged in luggage style box that has metal lock and handle. Size 14 3/4 x 11 3/4 x 3 1/4 in.

LIST 2.00

No. 1740 NURSE KIT

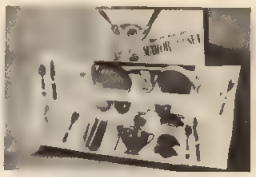
A complete nursing set with features that make it a superb value. Set contains doll for the young nurse to practice on. Packed in luggage style box with metal lock and handle. Size 14 3/4 x 11 3/4 x 3 1/4 in.

LIST 2.00

No. 1910 JUNIOR MISS COSMETIC KIT
Hassenfeld

Colorful cosmetic play items in a beautiful lizard grain carrying case. Every necessary toy item included for realistic play as a young beautician. Case has sturdy metal lock and carrying handle. Size 9 x 6 1/2 x 3 1/2 in.

LIST 1.00



No. 203 CUPBOARD TEA SET

53-piece, service for six tea set with table cover. Made of washable, durable plastic with hand decorated three-color floral design. Red, Green, Yellow and Blue asst. in original cupboard type box with folding doors and set-up shelves.

LIST 4.25 ea.

No. 199 TEA SET
Not Illustrated

16-piece plastic, service for two tea set. Contains knives, forks, plates, cups, saucers, sugar and creamer. Complete with bright colored napkins. Red, Green, Yellow and Blue asst. in display box.

LIST 1.75

No. 1560 DELUXE SEWING TRUNK

A great value designed to catch the youngsters eyes. Priced to please the parents. Contains all the necessary items for the little seamstress to carry on realistic play! Complete with doll. Luggage style box with metal lock and carrying handle. Size 13 1/4 x 8 1/4 x 2 1/2 in

LIST 2.00

No. 600 TOY IRONING BOARD

Fully adjustable to 3 different heights. 7" wide, 30" long and 22" high at top adjustment. Made of selected woods.

LIST 2.00

No. 321—17" BABY

Plastic head, moving eyes and lashes, latex arms and legs, soft body, voice, shoes and stockings. Elegantly dressed in lace-trimmed rayon taffeta dress with frilled bonnet to match. Available in Pink, Blue, and Maize.

LIST 4.50

No. 535—22" BABY

Plastic head, moving eyes and lashes latex arms and legs, soft body, voice, lace-bordered petticoat, rubber panties, shoes and stockings. Charming rayon taffeta dress—lace and ribbon trimmed. Matching lace-trimmed bonnet. Available in Pink, Blue and Maize.

LIST 7.50

18" BABY

Plastic head, moving eyes and lashes, latex arms and legs, soft body, voice, lace-bordered petticoat, rubber panties, shoes and stockings, open mouth and teeth. Lovely rayon taffeta dress, richly trimmed with multi-color floral embroidery and lace accents. Available in Pink, Blue and Maize.

LIST 8.00

No. 537-W—22" BABY

Plastic head, best quality wig, rolling glacene eyes and lashes, open mouth with teeth, quality latex arms and legs, cry voice in body, lace-trimmed petticoat, rubber panties, shoes and stockings. Filmy ninon frock luxuriously embroidered at hem and yoke, and trimmed with lace at sleeves and neck. Charming lace-trimmed bonnet to match. Available in Pink, White, Blue and Maize.

LIST 13.00

No. 434-W 18" BABY

Plastic head, wig, moving eyes and lashes, open mouth and teeth, latex arms and legs, soft body, voice, lace-edged petticoat, rubber panties, shoes and stockings. Dainty rayon taffeta dress with multi-colored floral embroidery and lace. Matching embroidered bonnet. Available in Pink, Blue and Maize.

LIST 8.00

No. 536W—22" BABY

Plastic head, wig, moving eyes and lashes, open mouth and teeth, latex arms and legs, soft body, voice, lace-bordered petticoat, rubber panties, shoes and stockings. Fine ninon dress, daintily trimmed with wide lace and ribbon accents. Matching lace-trimmed bonnet. Available in Pink, Blue, and Maize.

LIST 9.00

No. 5029—29" BABY

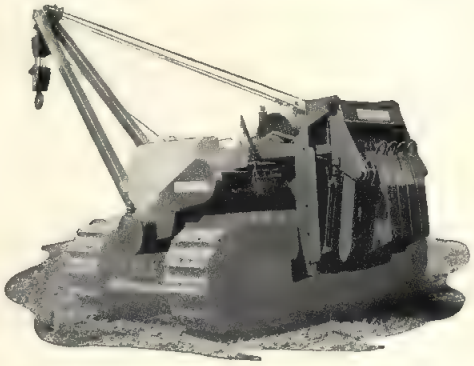
Swivel plastic head, moving eyes and lashes, special wig, composition arms and legs, voice, white shoes and stockings. Crisp, full-length bouffant taffeta dress with flaring flounce, puffed sleeves, and dainty lace trims. Complete ensemble includes matching hat, bag and parasol. Pearl necklace and satin petticoat with ruffled hem. Available in Red and White Check, Polka Dot Yellow, Rainbow Check and Plaid.

LIST 22.00

SUPERIOR PBI-9, 14, 18, 24B and 24C SIDE BOOMS

on International TD-9, TD-14A, TD-18A, and TD-24 Crawler Tractors

Model PBI-24C •



BLADE BACKFILLERS

• Blade Backfillers, 9-AF, 14-AF, and 18-AF available for Side Booms PBI-9, 14, and 18.

TRACTOR SPECIFICATIONS

Engines: International full Diesel, with gasoline conversion starting system and electric starter.

Transmissions: TD-9, 14A, and 18A: Selective sliding gear type TD-24: Syncro-mesh full reverse.

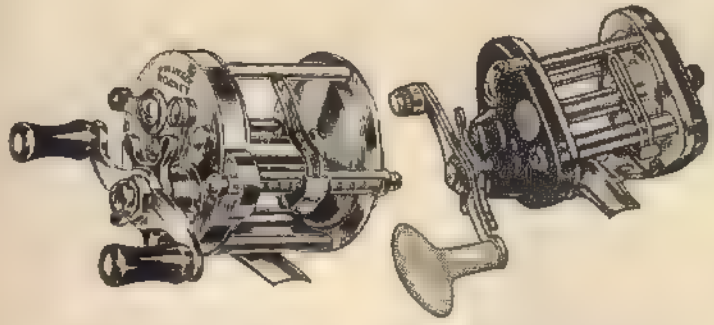
	TD-9	TD-14A	TD-18A	TD-24
No. of Cylinders	4	4	6	6
Bore and Stroke, inches	4.4 x 5.5	4⅝ x 6½	4¾ x 6½	5¾ x 7
Rated Governed Speeds	1400 RPM	1400 RPM	1350 RPM	1375 RPM
Max. Belt HP. (Sea Level)	45.9	72	101	167
Forward Speeds	5	6	6	8
Reverse Speeds	1	2	2	8
MPH. at Rated Governed RPM	1.5 to 5.3	1.6 to 5.7	1.7 to 5.7	1.6 to 7.8
Tread, C to C of Track	60"	74"	74"	80"
Length of Track on Ground	72-9/16"	78⅝"	94½"	117¼" (7 rollers)
Width of Track Shoes, in.	16, 18, 20	18, 20, 22	20, 22, 24	26
No. of Track Shoes	72	72	80	84
Ground Contact Area, Sq. in. with	2612 18" shoes	3145 20" shoes	4158 22" shoes	6097 26" shoes

TD-9, TD-14A, and TD-18A Steering: Hand lever operated, heavy duty, multiple disc clutch for each track. Individual foot-operated steering brakes.

TD-24 Planet Power Steering: Gradual or pivot turn, finger tip control, hydraulically actuated, two-range, planetary drive and pivot brakes, each side of tractor.

(See next page for Sideboom Specifications.)

ALL PURPOSE REELS—TROLLING REELS SURF-CASTING REELS

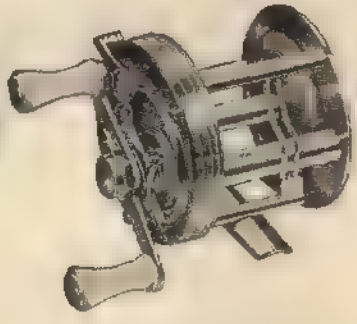


Pflueger Rocket No. 1355. This anti-backlash, level-wind reel is suitable for either salt or fresh water fishing. Exceptional line capacity, standard spool; throw-off star drag chrome finish. Gear ratio 3.62 to 1. Retail 13.50

No. 16R23. Each.....8.62

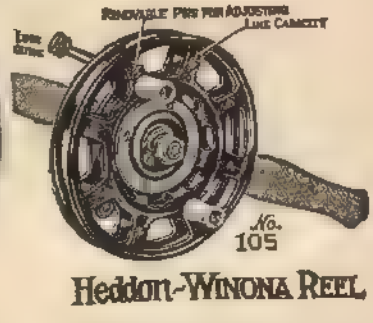
Ocean City Topsail No. 922F. Large capacity level wind reel for general all-around fishing. Offers synchro-mesh gears, removable line guide and worm. Two extra pawls. Chrome plated spool. Free spool, star drag, torpedo handle. Gear ratio 3 to 1. Capacity 200 yds. of 27 lb. test line. Fresh water reel seat. Retail 13.95.

No. 16R126. Each..... 8.21



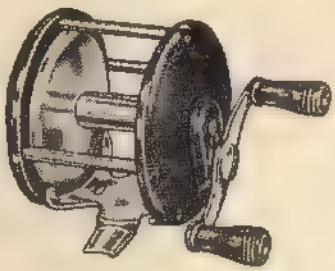
J. A. Coxe Do-All No. 65-C. Well designed, all-purpose reel for salt water, river or lake trolling. Made of light weight aluminum, with star drag. Non-reversing handles can be released instantly by thumb lever on head cap for casting. 150 yd capacity. Weight 9 oz. Retail 13.95.

No. 16R12. Each 8.21



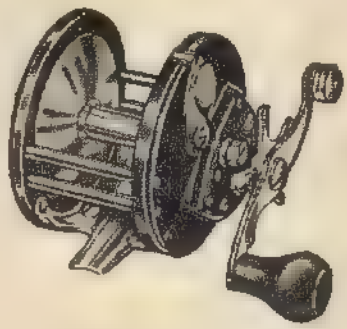
Heddon-Winona Reel No. 105. Gearless, free running, self spooling. For bait casting, trolling and still-fishing. Will hold 450 feet of 50 pound-test metal line. Rod clip designed to fit straight reel-seats and most offset handles. Included with each reel is an extension base for use with offset handles. Retail 10.00. Dealer 6.00.

No. 16R56. Less 2% net, each.5.88



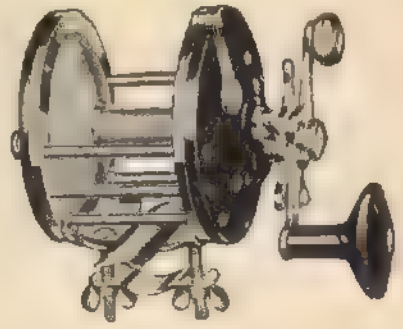
Ocean City Seolake No. 930. Economical sea and lake trolling reel that is triple multiplying with gears always in mesh. Bakelite side plates, double handle knobs of plastic. Nickel plated parts including spool. Weight 9 oz. Capacity 150 yds. of 27 lb. test line. Retail 2.95

No. 16R124. Each 1.74



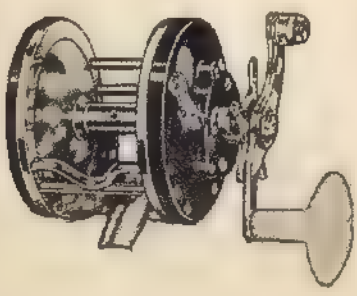
Ocean City Shoreline No. 125. Low priced free spool, star drag reel for deep sea and lake trolling. Synchro-mesh gears, self-lubricating bearings; nickel plated metal parts, including spool. Wooden handle knob. Gear ratio 2¼ to 1. Weight 18 oz. Capacity 250 yds. of 27 lb. test line. Retail 4.50.

No. 16R125. Each 2.65



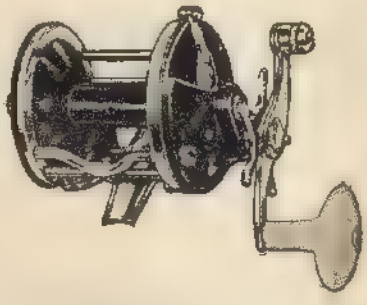
J. A. Coxe No. 625 Reel. A large, sturdy salt-water reel for boat, pier, or barge fishing. Features a silent ratchet, finger-tip operated free spool clutch. Frame is heavy chrome-plated brass with black bakelite side plates. Spool is constructed of corrosion-proof nickel silver. Gear ratio 2⅛ to 1. 250 yards capacity. Weight 22 oz. Retail 8.95.

No. 16R13. Each. 5.27



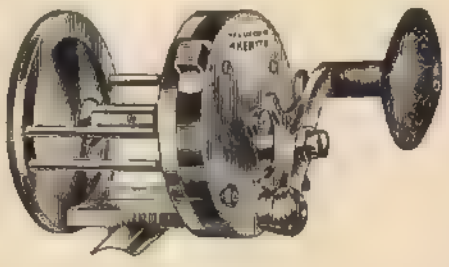
Ocean City Bay City No. 123. Popular star drag reel for general salt water use or deep lake trolling. Strong smooth gears, self-lubricating bearings, heavily chrome plated spool and metal reinforced bakelite side plates. Saddle thumb bar; torpedo handle; automatic free spool lever. Gear ratio 2¼ to 1. Weight 20 oz. Capacity 300 yds. of 27 lb. test line. Retail 11.50.

No. 16R123. Each.....6.76



Ocean City Hampton No. 994. Wide spool reel with Smooth-Kaster control and Zephaloy spool. One screw take apart. Oilite self-lubricating bearings; smooth working star drag; metal reinforced bakelite side plates. Torpedo handle with patented screw lock and wrench. Saddle thumb bar. Supplied with an extra spool and equipped with bar type reel clamp. Gear ratio 3 to 1. Weight 17.3 oz. Capacity 350 yds. of 27 lb. test line. Retail 16.50.

No. 16R127. Each.....9.70



Pflueger Akerite No. 2068. A truly thumbless surf-casting reel. Free spool, star drag, easy take apart, adjustable tension oil cups are featured. Hardened steel pivots; generated spiral tooth gear and crank; Gear ratio 2⅛ to 1. Retail 16.95.

No. 16R68. Each.....11.08

BAIT CASTING AND TROLLING LINES

Ashaway Nylon Bait Casting Line. All purpose waterproofed line. Needs no drying will not waterlog, rot or mildew. Black. Two 50 yard spools connected in box.

	Test	Per Box
No. 17R16.	12½ lb.	1.41
No. 17R11.	15 lb.	1.53
No. 17R12.	20 lb.	1.70
No. 17R13.	25 lb.	1.88
No. 17R14.	30 lb.	2.06
No. 17R15.	35 lb.	2.23

Cortland Nylon Bait Casting Line. Uniformly hard braided and smooth, Dri-Seald waterproofing. Therm-Set to eliminate excess stretch. Black. Two 50 yd. spools connected in box.

	Test	Per Box
No. 17R263.	12 lb.	1.53
No. 17R264.	15 lb.	1.70
No. 17R265.	20 lb.	1.88
No. 17R266.	25 lb.	2.06
No. 17R267.	30 lb.	2.29
No. 17R268.	35 lb.	2.47

Cortland Cam-O-Flage Nylon Bait Casting Line. Deceptive camouflage coloration will fool the wariest fish. Therm-Set for low stretch, waterproofed. Two 50 yd. spools connected in plastic box.

	Test	Per Box
No. 17R25.	12 lb.	1.65
No. 17R26.	15 lb.	1.86
No. 17R27.	20 lb.	2.00
No. 17R28.	25 lb.	2.18
No. 17R29.	30 lb.	2.41
No. 17R30.	35 lb.	2.59

Haddon Put-On Nylon Bait Casting Line. Suitable for fresh or salt water. Will not mildew, is acid proof, does not require drying. Black. Two 50 yd. spools connected in plastic box.

	Test	Per Box
No. 17R51.	10 lb.	1.47
No. 17R52.	12½ lb.	1.59
No. 17R53.	15 lb.	1.76
No. 17R54.	20 lb.	2.00

Gladding Dauntless Nylon Casting Line. Heat set line scientifically braided and waterproofed, with long wearing qualities. Black. Two 50 yd. spools connected in plastic box.

	Test	Per Box
No. 17R70.	12 lb.	1.53
No. 17R71.	15 lb.	1.70
No. 17R72.	20 lb.	1.88
No. 17R73.	25 lb.	2.06
No. 17R74.	30 lb.	2.24

Gladding Invincible Nylon Bait Casting Line. Made of the finest quality pre-tested, pre-shrunk, pre-treated nylon. Heat-set, completely water-proofed. Black. Two 50 yd. spools connected in plastic box.

	Test	Per Box
No. 17R177.	12 lb.	1.88
No. 17R178.	15 lb.	2.06
No. 17R179.	18 lb.	2.18
No. 17R180.	24 lb.	2.36

Gladding Blue Ribbon Silk Bait Casting Line. Designed for the most particular fisherman braided square with small diameter for tested size. Brown and white mottled pattern. Water proofed. Two 50 yd. spools connected in plastic box.

	Test	Per Box
No. 17R163.	12 lb.	2.30
No. 17R164.	16 lb.	2.47
No. 17R165.	20 lb.	2.71

Gladding Invincible Silk Bait Casting Line. The original silk waterproofed line, pre stop braided for long hard wear. Made of the highest quality China Stream silk obtainable. Black. Two 50 yd. spools connected in plastic box.

	Test	Per Box
No. 17R169.	12 lb.	2.76
No. 17R166.	18 lb.	3.12
No. 17R167.	24 lb.	3.59
No. 17R168.	30 lb.	4.12

South Bend Black Oreno Nylon Bait Casting Line. Waterproofed and hard braided for easy casting and long service. Two 50 yd. spools connected in box.

	Test	Per Box
No. 17R76.	15 lb.	1.53
No. 17R77.	20 lb.	1.70
No. 17R78.	25 lb.	1.88
No. 17R79.	30 lb.	2.06

Shakespeare Wexford Nylon Bait Casting Line. Long wearing waterproofed line will not rot or mildew, stands up in salt or alkaline water. Two 50 yd. spools connected in box.

	Test	Per Box
No. 17R17.	10 lb.	1.41
No. 17R18.	15 lb.	1.69
No. 17R19.	18 lb.	1.80
No. 17R20.	25 lb.	2.10

Ashaway Musky-Bass-Pike Nylon Bait Casting Line. Specially designed for casting big hard fighting fresh water game fish. Heat treated, waterproofed, needs no drying. Two 50 yd. spools connected.

	Test	Per Box
No. 17R21	18 lb.	1.47
No. 17R22	24 lb.	1.59
No. 17R23.	36 lb.	1.76
No. 17R24.	45 lb.	2.00

Ashaway Catfish Special Line. Lead centered line, waterproofed, designed to go down deep where the catfish lie. Sand color. Available in 50 yd. spools, packed one dozen to box.

	Test	Per Doz.
No. 17R3.	40 lb.	7.76

Ashaway Solid Monel Trolling Line. Non-corrosive line for deep trolling in fresh or salt water. Tempered for flexibility and strength. Gun metal finish. Packed on 100 yd. spools. Two connected in box.

	Test	Per Box
No. 17R33.	30 lb.	2.35
No. 17R34.	40 lb.	2.94

Ashaway Griffon Deep Trolling Line. Has a non-kinking metal center, nylon covered and waterproofed. Keeps line from sinking too abruptly and permits trolling at medium depths. 40 lb. test. Packed in 100 and 200 yd. reels, each in box.

No.		Per Coil
17R4.	200 yd. coil	4.70
17R5.	100 yd. coil	2.35

Vacuum Goods

School Lunch Cases—Plaid Fabric

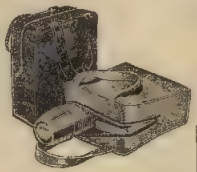
Thermos Brand

Rubber lined plaid canvas case with adjustable shoulder or arm strap, with Thermos brand bakelite buff colored half pint vacuum bottle No 24½A only

Stock No.	Mfr's. No	lb Each	Fact. List EACH
2J 8797	4934	1½	$3.95

Six in a carton

Office Lunch Thermos Case



Made of leatherette fitted with a Thermos brand No 2034 aluminum 11-oz vacuum bottle with Alberlite cup Case is beautifully and simply styled, with arm handle and has catch to hold bottle in upright position Case is ventilated top slip pared, and bottom reinforced to hold shape Ample space for sandwiches fruit and other foods

Stock No.	Mfr's No.	Case Size In	lb Each	Fact. List EACH
2J 8798	4934	7½x9x3	1¼	$7.49

Six in a carton

Carrying Cases

For Thermos, Stanley and all Standard Make Vacuum Bottles

2J8911

2J8912

Single

Tan leather Good quality stock and workmanship Fastened with straps and buckle

Stock No.	Mfr's. No.	Cap.	lb Each	Cat. List EACH
2J 8911	Spec.	1 qt.	1	$6.85

Genuine Leather Carrying Case

Stanley

A compact, smart looking genuine leather carrying case especially designed for carrying Stanley 1 quart vacuum bottles Heavy gauge durable leather with rigid reinforced construction affords extra protection against hard use Flap opening with brass snap button fastener Adjustable carrying strap

Stock No.	Mfr's. No	Holds Bottles	Inches Ht.	Wd.	Dp.	lb Each	Fact. List EACH
2J 8858	ST5394	1	14	4½	4½	3	$16.50
2J 8859	ST5395	2	14	8½	4½	5	21.25

One in a carton

Syphon Bottles

Sparklet

A genuine Sparklet Syphon with every luxury feature. Finished in highly polished heavy chromium plate it adds beauty and distinction to any home. Pure tin lined to resist corrosive action. Wide mouth to accommodate ice cubes, to facilitate cleaning and permit the use of Blue Band Bulbs Charges through the bottom, eliminating unattractive exposed charging mechanism A syphon reminiscent in design of its famous Sparklet heritage but as modern as tomorrow in beauty and operating. Each syphon comes packed complete with 3 bulbs.

Stock No.	Mfr's. No.	Finish	Approx. lb Each	Fact. List EACH
2J 8967	185	Chrome Vase, Red Head	3	$15.00

One in a carton.

Sparklet Bulbs

Refills Fit All Models Sparklet Bottles

Red Band Bulbs

Will make sparkling sodas ice cream sodas, sparkling wines and fruit juices.

Stock No	Mfr's. No.	Type Band	Approx. Oz. Ctn.	Cat. List CARTON
2J 8971	210	Red Band	14	$0.85

Ten bulbs in a carton

Blue Band Bulbs

Make light, creamy ice cream butters, whipped cream, etc

Stock No.	Mfr's. No.	Type Band	Approx Oz Ctn	Cat. List CARTON
2J 8972	405	Blue Band	14	$0 75

Five bulbs in a carton

Soda King Syphon

Famous glass lined Soda King, the only glass lined syphon on the market. Makes delicious sparkling water from plain drinking water Keeps soda fresh and sweet indefinitely Makes health in Tom Collins, ice cream sodas, colas ginger ale, root beer and a wide variety of drinks. Specially recommended for carbonating wines because of the glass lining The wine does not come in contact with any metal that might spoil its flavor Makes sauterne fizz like champagne, converts still burgundy into sparkling burgundy Equipped with patented Soda King safety relief, which insures against accidents which may occur when a syphon is incorrectly used. Ful. quart capacity. Height 13¾ inches. Finished in polished chromium with black top.

Stock No.	Mfr's. No.	Approx. lb Each	Cat. List EACH
2J 8977	5	3	$16.00

One in a carton

Soda King Super-Chargers

Soda King super-charger sales follow syphon sales automatically and repeat frequently Each super-charger makes a full quart of delicious sparkling soda. They are guaranteed fully charged and sterilized before filling. They fit all syphons and meet all demands. Packed in attractive counter display cartons

Stock No.	Mfr's. No.	Approx. Oz. Each	Fact. List PER PKG
2J 8978	10	14	$0.85

Packed 10 bulbs to a package.

ON DISPLAY AT THE NEW YORK TOY FAIR

HOTEL NEW YORKER, ROOM 623

The Fast Selling

WILLIAMSBURG LINE

of popular priced children's table-and-chair sets, toy chests, musical rockers, name rockers, flat top desks

SINCE 1870 CHAIRS YOU CAN TRUST

THE Williamsburg Chair Factory INC.

WILLIAMSBURG, OHIO

CHICAGO SHOWROOM AM. FURN. MART SPACE 710

COWBOY HOLSTER SETS AND GUNS TO GO WITH THEM

S-BAR-M

by SERVICE

America's Most Beautiful Cowboy Holster Sets
More Beautiful than ever for 1951
(Guns Available)

- Original Designs
- Sales-compelling Values at Every Price Level
- New really low-priced numbers
- Deliveries Guaranteed

Visit with us at the AMERICAN TOY FAIR.

HOTEL McALPIN, ROOMS 642 and 644

SERVICE MANUFACTURING CO., INC.

120 EAST 16th STREET • NEW YORK 3, N. Y.

SHEPHARD TOYS

THE A. I. ROOT COMPANY—with over three-quarters of a century of experience in manufacturing ROOT TOYS—and THE A. M. SHEPHARD COMPANY—with years of merchandising and design background—COMBINE to offer for your consideration a line of distinctive merit.

This is the popular toy chest on wheels—one of the SHEPHARD TOYS.

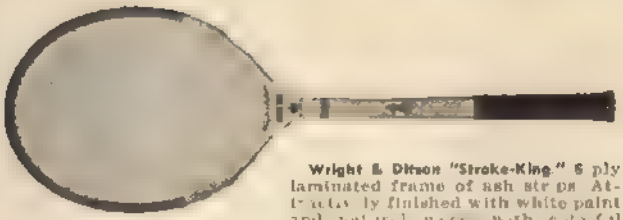
See the other models as well as the letter sets, puzzles and educational toys at the Toy Fair.

PERMANENT SHOW ROOM No. 354

200 Fifth Ave. Bldg. NEW YORK

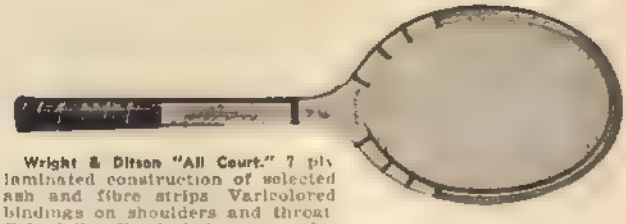
SHEPHARD TOYS Dept. 8, MEDINA, OHIO

TENNIS RACKETS



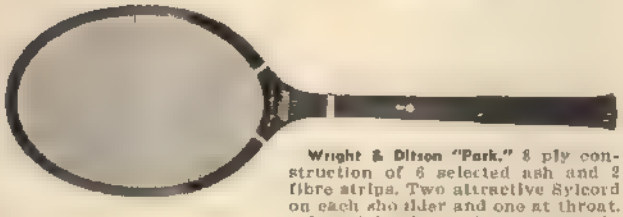
Wright & Ditson "Stroke-King." 6 ply laminated frame of ash strips. Attractively finished with white paint and natural wood, with colorful bindings at throat and shoulders. Black grip. Silk strung.

No. 9R61. Each 4.51



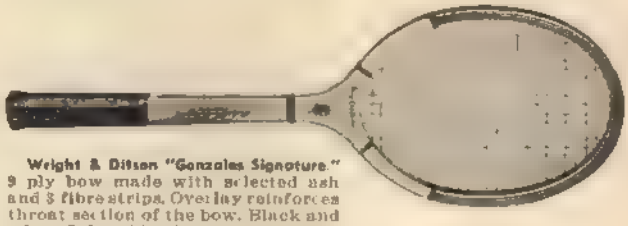
Wright & Ditson "All Court." 7 ply laminated construction of selected ash and fibre strips. Varicolored bindings on shoulders and throat. Colorfully finished in one color paint and natural wood. Black grip. DuPont nylon.

No. 9R62. Each 5 42



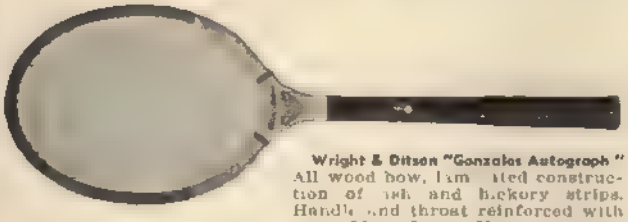
Wright & Ditson "Park." 8 ply construction of 6 selected ash and 2 fibre strips. Two attractive Sylcord on each shoulder and one at throat. Selected leather grip. Attractively decorated with two colors of paint and natural wood. DuPont nylon.

No. 9R63. Each 6.20



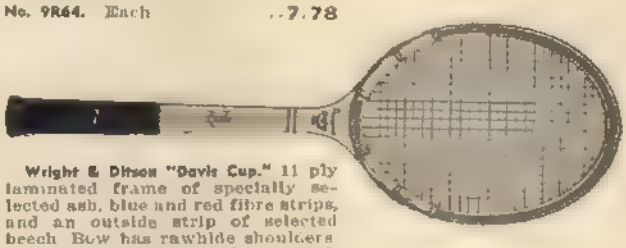
Wright & Ditson "Gonzales Signature." 9 ply bow made with selected ash and 3 fibre strips. Overlay reinforces throat section of the bow. Black and silver Sylcord bindings at shoulders and throat. Painted white from bottom of throat to top of shoulders. Selected black leather grip. Ashaway Multi-ply nylon.

No. 9R64. Each ..7.78



Wright & Ditson "Gonzales Autograph." All wood bow, laminated construction of ash and hickory strips. Handle and throat reinforced with long fibre faces. Heavy rounded overlay to reinforce bow. Rawhide shoulders. Attractive black and silver Sylcord bindings. White throat and overlay faces, black handle sides. Inside center skived perforated black leather grip with silver line. Ashaway Multi-ply nylon.

No. 9R65. Each 11.70



Wright & Ditson "Davis Cup." 11 ply laminated frame of specially selected ash, blue and red fibre strips, and an outside strip of selected beech. Bow has rawhide shoulders. Handle and throat reinforced with white fibre. Reinforcement overlay on bow. Handle flakes are decorated with colored stripes. Attractive Sylcord bindings. Inside center skived perforated red leather grip. Strung with new Pro-fected nylon.

No. 9R66. Each 13 10

BADMINTON EQUIPMENT

Wright & Ditson Comet Badminton Racket. Laminated bow of white ash and one fibre strip. Colorful bindings on shoulders and shaft. Attractively finished in paint and natural wood. Black grip. Nylon strung.

No. 9R103. Each 3. 14

Wright & Ditson Badminton Set. Consists of two Comet rackets, one net 25' x 3', two special shuttlecocks, and one rule book. Packed each in display box.

No. 9R101. Per set 8 75

Wright & Ditson Badminton Set. Consists of four Comet rackets, two double presses, one net 20' x 2', one set of posts, three special shuttlecocks, and one rule book. Packed each in display box.

No. 9R102. Each 18.42

Indoor and Outdoor SHUTTLECOCKS

Wright & Ditson Special Indoor Shuttlecocks. Made with 14 round feathers, of Timpe construction.

No. 9R104. Per dozen . 3 77

Wright & Ditson Special Outdoor Shuttlecocks. Made with 14 round feathers, of Timpe construction.

No. 9R105. Per dozen . . 3 77

Burke

BILLY BURKE
COMMANDER WOODS and IRONS

Commander Woods. Head model of medium size with dark mahogany lacquer finish. Black Face Face Insert. True Temper Dynamic Shafts. Black Rubber Vacuum grips. Available in registered sets of two and three

No. 11R81. Matched set of 2. Retail 22.00. Per set.....14.41

No. 11R82. Matched set of 3. Retail 33.00. Per set.....21.56

Commander Irons. Single Flange heads with chrome finish. True Temper Chrome shafts. Black skived leather grips. Available in Registered sets of five and six

No. 11R83. Matched set of 5 (2-5-7-8-putter). Retail 37.50 Set 24.50

No. 11R84. Matched set of 6 (2-4-5-7-9-putter). Retail 45.00 Set 29.40

BURKE
REGISTERED WOODS and IRONS

REGISTERED WOODS

Persimmon Heads (New Rotan Model Ideal for Average Player)
Light Walnut Dur-O-Var Finish
Full Finished Line Scored Faces with ⅜" Red Fiber Face Inserts
"T" Pattern True Temper Dynamic Chrome Shafts
Brown Cork and Rubber Vacuum Grips. Retail 48.00.

No. 11R89. Matched Set (3). Per Set.....31.36

REGISTERED OFFSET IRONS

New Model Double Flange Offset Heads
Approved Scoring with Contrast Faces
Chrome Plated Finish
"T" Pattern True Temper Dynamic Chrome Shafts
Brown Cork and Rubber Vacuum Grips. Retail 60.00.

No. 11R90. Matched Set of 6 (2, 4, 5, 7, 9 and Putter). Per Set..39.20

BILLY BURKE
Bomber
WOODS and IRONS

Bomber Woods. Medium True Temper Dynamic Chrome shafts. Laminated Head with black face insert. Brown Cork and Rubber Vacuum grips. Available in registered sets of three and four.

No. 11R86. Matched set of 3. Retail 1.00. Per set . 37.32

No. 11R87. Matched set of 4. Retail 55.00. Per set..... 44.45

Bomber Irons. Flange stainless steel heads. Medium True Temper chrome shafts. Vacuum Grip. Available only in matched set of 3 and Sandiron.

No. 11R88. Matched set of 9 (2-3-4-5-6-7-8-9-Sandiron). Retail 101.25

Per set 66.44

LADY BURKE
Registered
WOODS and IRONS

Lady Burke Head Model Woods. Black finish. Red fiber face insert. Steel shaft by True Temper, chromium finish. Brown perforated grip with bell end. Available in registered sets of three clubs.

No. 11R73. Matched set of 3. Retail 33.00. Per set...23.52

Lady Burke Irons. Single flange heads, chromium finish. Steel shaft by True Temper, chromium finish. Brown perforated grip with bell end. Available in registered sets of six clubs

No. 11R77. Matched set of 6 (2-4-5-7-9-Putter) Retail 48.00

Per set 33.32

TERRYTOON CARTOONS
WATCH YOUR SALES ZOOM
with these TWO NEW HITS
in HALCO'S
HIT PARADE OF COSTUMES
MIGHTY MOUSE
Be Sure to meet us
AT THE TOY FAIR
HALCO'S SHOWROOM 404
200 FIFTH AVENUE
"H'YA I'M Dinky"
MIGHTY MOUSE
and Dinky
FEATURING
THE FINEST DUVETEENS, SATEENS
AND
WATASEAL
100% VIRGIN VINYL
© TERRYTOONS, INC.
J. HALPERN COMPANY
SUPERB HALCO BRAND

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100% VIRGIN VINYL

© TERRYTOONS, INC.

J. HALPERN COMPANY

SUPERB HALCO BRAND

HUCKINS FAIRFORM FLYER—Grand Manan 45 Model. Boat shown is FAIRFA—"the quietest motor yacht ever built," according to her owner, Frank Pembroke Huckins. FAIRFA is powered with a pair of Chrysler Royal Specials and is lubricated with *Texaco Marine Motor Oil* exclusively—the oil that Huckins Yacht Corporation has used and recommended for many years.

MORE FUN FOR EVERYONE

● No worries . . . lots more fun . . . when you cruise with *Texaco Marine Motor Oil*. Engines simply purr with it . . . run with a smooth dependability that leaves care and upkeep cost behind.

Seven words sum up the reasons why: *Texaco Marine Motor Oil* keeps engines *clean!* That means less wear, fewer repairs . . . no harmful carbon or gum to rob you of power.

Tests prove you'll get more power and more miles per gallon when you use premium-quality *Texaco Marine White Gasoline*. There's nothing like it for fast, sure starts and free-flowing power aplenty.

Get acquainted with your Texaco Waterfront Dealer. He can give you a helping hand in many ways. The Texas Company, *Marine Sales Division*, 135 East 42nd Street, New York 17, N. Y.

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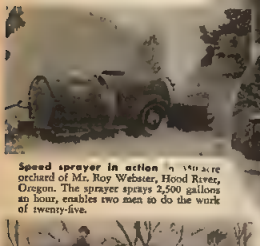
AND RECOMMEND TEXAC
MARINE MOTOR

TUNE IN . . . TEXACO presents MILTON BERLE on television every Tuesday night. METROPOLITAN OPERA radio broadcasts every Saturday afternoon

Speed Sprayer and Handmade Hydraulic Rake Save Labor

• Roy Webster, who owns and operates 350 acres of fine apple, pear and cherry orchards in the famous Hood River Valley of Oregon, has found two ways of cutting his labor costs. One is with a speed sprayer; the other, with a homemade brush rake. At pruning time, limbs are thrown into rows between trees and scooped up by the rake, which is controlled by hydraulic power.

Mr. Webster, like other keen farmers from coast to coast, has also discovered that *it pays to farm with Texaco Products.*



Speed sprayer in action in Webster orchard of Mr. Roy Webster, Hood River, Oregon. The sprayer sprays 2,500 gallons an hour, enables two men to do the work of twenty-five.

Foreman of Webster Orchards, Ross F. Collie (right) shows Texaco Man Joe B. Young homemade hydraulic brush rake which was constructed in machine shop on farm.

Farmers need and get timely service from Texaco Men. In addition they get the finest petroleum products—oils and lubricants that keep machinery on the job, fuels that give superior *"Fire-Power"* for low-cost operation. Texaco Man F. A. Carlson, shown above, is making a timely delivery of Fire-Chief gasoline to the farm of Mr. James Howschultz, near Blencoe, Iowa.

The spreader needs Marfak lubricant because *Marfak* resists acids, water-wash and stays on the job better and longer, adding life to farm machinery. Mr. Theodore Nehring (left), prominent farmer near Waco, Texas, lubricates his spreader with *Marfak* as his son Aubrey and Texaco Man V. L. Gaylor look on. ★

Custom-Made Havoline Motor Oil is ideal for gas or Diesel engines. Tests show that not only is it superior to other Premium oils, but it actually surpasses many good heavy-duty oils. It has a tougher oil film. Texaco Man Joe Young (left) has a friendly word with Foreman Ross Collie.

Be sure to see the exciting *full-color* film "TEX"—The Story of a Champion Calf—shown at Texaco Farm Meetings from coast to coast. Your Texaco Man can tell you all about it.

TUNE IN . . . Metropolitan Opera broadcasts every Saturday afternoon. See newspaper for time and station.

THE TEXAS COMPANY

IT PAYS TO FARM WITH TEXACO PRODUCTS

DIVISION OFFICES: Atlanta 1, Ga., Boston 17, Mass., Buffalo 3, N. Y., Chicago 4, Ill., Dallas 2, Tex., Denver 1, Colo., Houston 1, Tex., Indianapolis 1, Ind., Los Angeles 15, Calif., Minneapolis 2, Minn., New Orleans 6, La., New York 17, N. Y., Norfolk 1, Va., Seattle 11, Wash.

Texaco Petroleum Products are Manufactured and Distributed in Canada by McColl-Frontenac Oil Company Limited.

Speed Sprayer and Handmade Hydraulic Rake Save Labor

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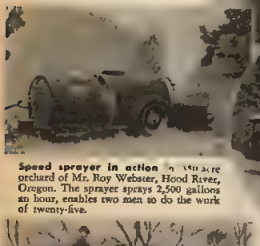

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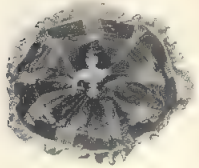
Texaco Petroleum Products are Manufactured and Distributed in Canada by McColl-Frontenac Oil Company Limited.

Melody Doll

A complete line of over 30 beautiful Character Dolls

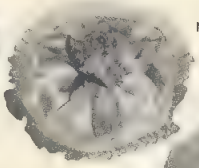
No. 310—Annie Laurie



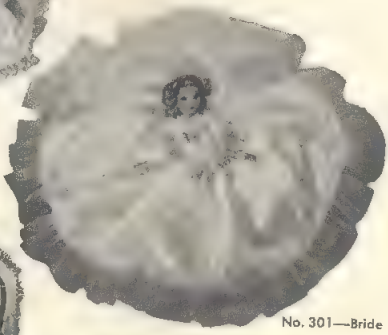
- 7½" gorgeously dressed dolls
- Moving eyes, head and arms
- Large selection of Miniature Character Dolls

No. 309—Irish Kathleen

No. 315—Easter Parade



- Melody Bridal Series, Melody Dolls, Nation Dolls and many others
- Enchanting new style creations
- Fine, uniform quality and workmanship

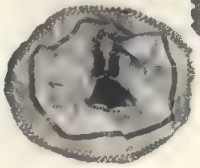


No. 301—Bride

No. 317—Cowgirl

No. 316—Cowboy

No. 308—Polish Girl



Immediate Delivery

LARGE SALES-GETTING PACKAGE

Each doll individually boxed in colorful display package with clear plastic window.

SALES REPRESENTATIVES

RAY S. LAUNDER
1433A Merchandise Mart
Chicago 54, Ill.

McDONALD & SHAW
Southland Hotel
Dallas, Texas

GENE ALCORN & CO.
1340 E. 6th St.
Los Angeles 21, Calif.

E. G. ALDEN & CO.
P.O. 5014, Terminal Sta.
Denver 17, Colo.

Write for Catalog and prices, or phone FRank lin 2 3644

The House of Dolls

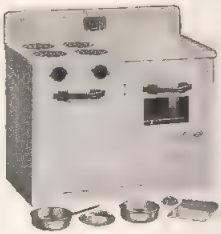
311 N. DES PLAINES ST., CHICAGO 6, ILL.

The Midwest's Largest Doll Manufacturer

"Little Lady" ACTION TOYS

Sell FAST Because They're Like the Real Thing..!

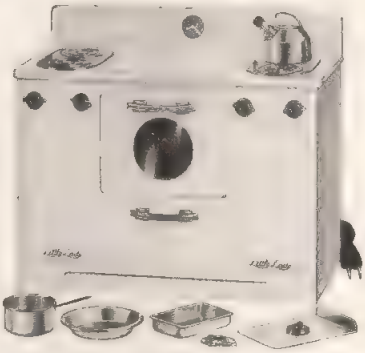
Toy Ranges, Flat Irons, Ironing Boards, that Really Work . . . Just Like Mother's



REALISTIC PLAY STOVES

Loads of play value!! Equipped with utensils, play switches; windows in oven doors. Electrically welded steel construction. Baked enamel finishes. The realistic "LITTLE LADY" non-electric play stoves are ideal for the little tot who is too young for the "LITTLE LADY" Electric range.

Watch for the sensational new "SEE 'EM POP" Popcorn Vender—realistic and practical.



No. 240—Large 15" ELECTRIC RANGE

Listed by Underwriters' Laboratories. A real scale model toy electric range of finest quality. Does real cooking and baking with separate elements for burners and ovens. Heavy welded steel construction—beautifully enamelled in new combination colors. Permanently attached cord set.

Retail: $8.95

Other electric models from $3.95 and up.

IRONING BOARD

28" x 8", stands 22" high . . . sturdy construction. Like modern "Big" ironing boards. Red enameled braces and legs. Folds flat. Double-lock braces for real rigidity. A real quality board—a honey for your money!

FLAT IRONS

Toy Play Irons for tiny tots and real Electric Irons that really iron! Listed by Underwriters Laboratories. Streamlined, heavy cast sole plate, heating element fully insulated. Will not overheat.

Various models in popular price range from

49¢ and up.

THE METAL WARE CORPORATION

TWO RIVERS, WISCONSIN

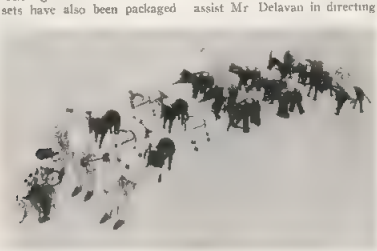
NEW YORK CHICAGO

The Rollfast Hopalong Cassidy bicycle (made by the D. P. Harris Hdw. and Mfg. Co. 99 Chamber St., New York) can be seen in the recently released MGM motion picture, "Cause for Alarm," starring Loretta Young. Appearing with Miss Young is young Bradley Mora, who is unique in that he is the only person ever to be given the privilege of impersonating Bill Boyd (Hopalong Cassidy) publicly. Shown above is Bradley with his Rollfast Hopalong Cassidy bicycle and the star of the film, Loretta Young.

Humpty-Dumpty Expansion

At the Toy Fair, Humpty-Dumpty Toys, Inc., Seneca Falls, N. Y., unveiled its greatly expanded and enlarged line of Schoenhut Humpty-Dumpty Circus Toys. Based on the original Schoenhut models, the line incorporates all the construction and play features which made these toys popular, two generations ago but it has been expanded and has been re-packaged in accordance with modern merchandising.

For instance (due probably to the influence on young Americans of Wild West television programs) there has been added a Rodeo Set, including a palomino pony and a cowboy complete with gun, lasso and corral. All figures of animals comprising the sets have also been packaged individually in window cartons (except properties), for parents and others who want to add one item to an existing set. All items are available separately. The Humpty-Dumpty line now comprises 11 sets, listed at retail from $3.50 to $25 and 18 individual items priced from 5¢ to $3.



Humpty-Dumpty has also announced the appointment of eight firms to represent the toys to the jobbing and retail trade. These are: the Anderson Sales Co., Los Angeles and Seattle; Joseph H. Surkamer, Ft. Worth; Chas. T. Wheat & Co., Memphis; Moseley & Abrahams, New York; J. H. Eyerley & Associates, Inc., Chicago; T. F. Sanford, Hendersonville, N. C.; K. A. Hammond & Co., Moorefield, Ontario, Canada; and the Guiterman Co., Inc., New York City, for export.

Nelson B. Delavan, president, has announced the recent election of two new vice-presidents of the company, Kenneth E. Rogers and Lewis S. Bell. Mr. Rogers will be in charge of production and will assist Mr. Delavan in directing the operation of the firm. He comes to his new position after many years of executive engineering experience in Seneca Falls and Detroit. Mr. Bell, a veteran of years of executive sales work, has just returned from a month's trip of the entire country, during which he concluded arrangements with the firms of manufacturer's representatives whose appointment is noted above.

STORK VISITS THE FABRIKANTS

Mr. and Mrs. Melford Fabrikant have announced the birth of their daughter, Janis Sue Fabrikant. Janis Sue weighed 7 pounds and 4½ ounces when she came into this world on March 3rd. Mr. Fabrikant is active in the Lendor Trading Co., wholesalers, 28 Marshall St., Paterson 1, N. J.

DOEPKE ANNOUNCES ALLOCATION POLICY

An allocation system, based on average sales over the past three years, has been announced by the Charles William Doepke Manufacturing Company, producers of Model Toys.

The procedure will be based on past sales as a percentage of toys manufactured during 1951, according to Fred W. Doepke, vice-president in charge of sales.

"Our company will continue to make as many Model Toys as is absolutely possible," he said, "so long as it will not interfere with any defense obligation that may occur. The position in which we find ourselves is one where we will not jeopardize the mutual respect that we have attained with our customers and henceforth our course of action will be to further our basic policy of fairness to all."

In essence, each sales representative will be allocated a percentage of toys made in 1951 based on his average sales during the past three years. The representative, in turn, will determine the ratio of toys for each customer based on the same three years average.

Orders will be solicited monthly, according to production schedules, and every customer will be given two weeks to take up his option on the toys allocated to him. If a customer does not take up his option, his toys will be allocated to other customers by the representative. All orders will clear through representatives.

"It is our sincere belief that our policy for 1951 is as sound as possible," Doepke said, "that each customer will know where he stands, that he will receive merchandise allotted to him and that he will not tie up his money with false hope and misunderstanding."

In general, the same terms apply in 1951 as in 1950 and prices are still being maintained at the September 8, 1950 level.

NEW WINDOW STREAMER FOR BERSTED DEALERS

Dealers and jobbers will be interested to learn that Martin Bersted, of Bersted's Hobby Craft, Inc., Monmouth, Ill., has prepared a new window streamer featuring his company's line of rubber molding toys. The vivid streamer, which shows seven of the molds in the company's line of molds and kits, is available to all dealers handling the line.

The Bersted exhibit in the Hotel McAlpin during the recent Toy Fair was planned to demonstrate to dealers the manner in which they could make effective attention-catching and money-making window displays of the Bersted Hobby-Craft Line.

Model Toys

Scale Model Automobiles

Aluminum Model Toys

Ford custom sedan, Plymouth deluxe sedan, Studebaker starlite coupe reproduced 1/25th actual size. Tenite non-peeling precision molded bodies, bright shiny windows, bumpers and grille chrome plated. Headlights and direction indicators are chrome plated steel Disc wheels, chrome plated hubs rubber tires. Chassis 20 gauge steel with special locklight drive screws. Powered with 5 pole enclosed electric motor with double end drive. Spring action control switch operates car and returns to neutral when released. Handy power pack holds 2 dry cells and control panel. Precision steering pneumatically controlled by rubber bulb thru 72 inch capillary cable. Cars run forward, reverse, steer right or left by flick of the finger. Color matched to cars represented. One in a display box.

4H3366

4H3367

Electric Remote Control Units 1951 Models

Stock No.	Mfr's. No.	Make of Car	Fact. List EACH
4H 3366	RP	Pontiac	$8.00
4H 3365	RS	Studebaker	8.00

One dozen in a box.

Electric Remote Control Units 1952 Models

Stock No.	Mfr's. No.	Make of Car	lb Each	Fact. List EACH
4H 3080	RF	Ford	1½	$7.00
4H 3081	RS	Stude.	1½	7.00
4H 3082	RP	Pontiac	1½	7.00

Twelve in a carton.

Motorized Unit

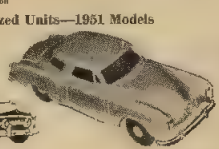
Same fine construction as remote control models but powered with key wind clock spring motor with brass pinion gear, equipped with free wheeling motor. Individually boxed.

Stock No.	Mfr's. No.	Make of Car	Fact. List EACH
4H 3359	MP	Pontiac	$2.00

One dozen in a carton.

Motorized Units—1951 Models

4H3354



4H3355

Stock No.	Mfr's. No.	Make of Car	Fact. List EACH
4H 3354	MF	Ford	$2.00
4H 3355	MS	Studebaker	2.00

One dozen in a box.

Motorized Units—1952 Models

Stock No.	Mfr's. No.	Make of Car	lb Each	Fact. List EACH
4H 3077	MF	Ford	⅝	$2.00
4H 3078	MP	Stude	⅝	2.00
4H 3079	MP	Pontiac	⅝	2.00

Twelve in a carton.

Flywheel Motorized Units—1952 Models

Stock No.	Make of Car	lb Each	Fact. List EACH
4H 3075	Ford	⅝	$1.30
4H 3076	Stude	⅝	1.30

Twelve in a carton.

Thimble-Drome Doodle Bug Kit

Contains everything necessary to start and run the car. Complete chr. factory tested. Bridle tether wire, center bearing cord and handle for spin start, one pint Thimble drome fuel, filler hose break-in oil, instruction, parts list and battery clips and wires. Only one dry cell battery needed. Car equipped with .099 displ. engine. Length 9¾ inches width 4½ inches height 3⅝ inches.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 2177	KD9	4	$16.95

One kit in a carton.

Thimble-Drome Racer

Shatter proof die cast body. Baked on hard enamel finish. Polished radiator grille. Chrome exhaust pipe. Polished disc wheels. Hand brake. Wobble pump. Non-skid rubber tires. Length 9⅝ inches, width 4⅝ inches, height 3⅝ inches.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 2175	303-C	2½	$4.95

Model Midget Racer

Ohlsson-Rice

Realistic scale construction based on actual midget racer. Die-cast aluminum construction. Exclusive front spring suspension and radius rods. Baked enamel finish, miniature plated accessories, authentic tread tires. Wheel bars six inches. Length 10⅛ inches, width 6 inches, height 3 inches.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 2181	Midget	2½	$6.00

Henney—Packard Ambulance

A detailed reproduction 1/20th scale, size 13⅛ inches long, 4 inches wide and 3½ inches high. Body precision molded of tough durable tenite. Plated body trim including windows, fenders, headlights and tail lights. Die cast plated hood ornament, front grille and bumpers. Sturdy metal chassis equipped with rubber tires mounted to plated disc wheels. Powered with special integral clock spring motor. Free wheeling gear provides long distance travel and coaster operation for increased play value.

Stock No.	lb Doz.	Fact. List EACH
4H 3356	18	$4.00

One dozen in a carton.

Buddy L Trucks

Sand and Gravel Dump Truck

Extra large dump body, hinged tail gate. Truck body finished in green enamel; dump body is gray. Heavy duty tires and wheels.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Doz.	Cat. List EACH
4H 175	312	18¼	4½	6½	25	$1 55

One in a carton.

Shell Pick Up and Delivery

Extra large delivery body, oil drum bank. Chain across rear. Streamlined modern truck, bright enamel finish, black stencilling.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Doz.	Cat. List EACH
4H 180	318	13½	4½	4	22½	$1.65

Automatic Dump Truck

Farm Supplies

Automatic spring lift, safety lock, and gate opens automatically. Brilliant enamel finish. Heavy duty wheels and tires.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Doz.	Cat. List EACH
4H 176	634	23½	5½	11½	72	$4.60

One in a carton.

Sand and Gravel Rider Dump Truck

Pull and ride. Automatic spring lift. End gate opens automatically. Lever locks for safe riding. Two tone enamel finish. Top of hood and upper portion of cab and body are gray enamel; lower portion red. Heavy duty tires.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Doz.	Cat. List EACH
4H 182	702	28½	8½	10½	87	$6.00

One in a carton.

Rider Fire Truck

Pull N Ride feature. Hand cranked siren. Swivel extension ladder can be raised to any height. Red and gray enamel finish. Heavy duty wheels. Stud tires.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Doz.	Cat. List EACH
4H 179	811	32½	9	8½	120	$9 50

One in a carton.

Fire and Chemical Truck

Has hand cranked siren, fire extinguisher which actually squirts water. Ladders adjustable to 26 inches. Two tone red and gray enamel finish. Heavy duty tires and wheels.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Doz.	Cat. List EACH
4H 183	840	25	7	6½	69	$5.95

One in a carton.

Truck and Steam Shovel

Two toys in one. Mechanical winch unloads and mechanically reloads steam shovel. Steam shovel separately digs, swings and dumps. Real side mower sound. Both toys color fully enameled and stencilled.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Doz.	Cat. List EACH
4H 181	870	33	9	18½	171	$14.25

One in a carton.

Cari-Car

Swan Hill Mfg.

Original operating model lumber carrier, an indoor and outdoor toy. Sturdy and durable of all metal construction.

Stock No.	Lgth. In.	lb Each	Cat. List EACH
4H 4300	11½	6½	$3.00

Six in a carton.

Only Firestone

TRACTOR TIRES Give You All These EXTRAS

LET THE FACTS SPEAK FOR THEMSELVES

YOU can believe the facts when you see the proof right before your very eyes. Look at the tires and you'll see that Firestone offers you —

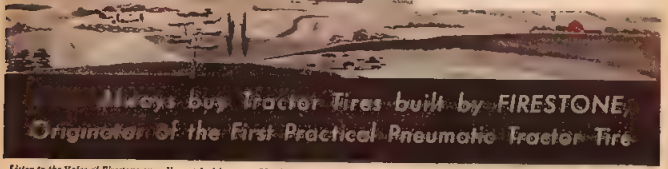
A Choice of TWO Tread Designs, a choice between the new and advanced Open Center and the one and only Traction Center Tire.

Curved and Tapered Bars in both tires . . . tapered for a sharper bite, and curved for greater leverage.

Flared Tread Openings in both tires . . . wider at the shoulders to prevent soil jamming and to permit easy, automatic soil release.

Wide, Flat Treads in both tires for full shoulder-to-shoulder traction power and life.

Only Firestone gives you all these extras. That's why Firestone Tires pull better, last longer, and turn out more work for your tire dollar.



Always buy Tractor Tires built by FIRESTONE
Originator of the First Practical Pneumatic Tractor Tire

Listen to the Voice of Firestone on radio or television every Monday evening over NBC

Copyright, 1951, The Firestone Tire & Rubber Co.

Mound Metalcraft

Utility Hauler

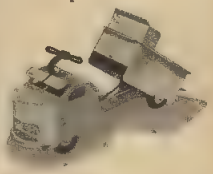
Latest in design and sty ng. Heavy gauge construction. Embossed stakes on side panels. Disc wheels, 6 large rubber tires. Plated steel rims. High gloss baked enamel finish. Green truck, yellow body.

Stock No.	Mfr's. No.	Lgth.	Ht.	Wd.	lb Doz.	Cat. List EACH
		Inches				
4H 104	175	12	6½	5½	34	$2.55

One in a box. Six in a carton.

Hydraulic Dump Truck

Constructed of 18 gauge steel, 4 inch size wheels with friction oil less bronze bearings. It pulls, it pushes, it dumps. Equipped with automatic lowering and closing end tail gate. Has real hydraulic action. Handle bar attachment for steering. Convertible seat. Red body with white insignia and border trim.



Stock No.	Mfr's. No.	Overall Lgth. In.	Ht. In.	Wd. In.	lb Each	Cat. List EACH
4H 4320	D301	24	8½	8½	15½	$13.50

Packed individually. Four in a shipping carton.

Dump Truck

All heavy steel. Factual scale model of a 1950 popular truck. Dual, pulled steel truck wheels and rims with large rubber tires. Plated dump control levers. Heavy plated bumper. Red truck, green dump box.

Stock No.	Mfr's. No.	Lgth.	Ht.	Wd.	lb Doz.	Cat. List EACH
		Inches				
4H 110	180	12	6½	5½	38	$3.10

One in a box. Six in a carton.

Allied Furniture Van

Heavy steel construction has 16 wheels, full floating tandem rear axles, retractable stand, locking rear doors. Decorated in orange with black lettering.

Stock No.	Mfr's. No.	Lgth	Ht.	Wd	lb Doz.	Cat. List EACH
		Inches				
4H 150	400	22	8⅞	6⅜	90	$5.40

One in a carton.

Wrecker Truck

All heavy steel construction. Factual scale model of popular wrecker. Heavy dual, plated, steel wheels and rims. 6 large rubber tires. Plated hoisting crank with sturdy chain and hook. Plated front bumper. Blue cab and body, red hoist.

Stock No.	Mfr's. No.	Lgth.	Ht.	Wd.	lb Doz.	Cat. List EACH
		Inches				
4H 111	250	12½	5⅝	5½	32	$3.00

One in a box. Six in a carton.

DeLuxe Scale Model Grey Van Truck

Authentic scale model truck designed to the finest details. Die cast cab with signal lights, headlights. Extra heavy gauge steel chassis reinforced and welded construction. All aluminum van body with decorative decals and name Grey Van Lines. Double rear doors and single side door opens. Heavy duty type treaded rubber tires with die cast wheels. Detachable cab.

Stock No.	Mfr's. No.	Lgth	Ht	Wd	lb Each	Cat. List EACH
		Inches				
4H 166	6000	24½	9	6	8	$12.00

One in a carton.

DeLuxe Scale Model Freight Truck

Authentically designed scale mode freight truck. Die cast cab with realistic details such as signal lights, head lights. Extra heavy gauge steel chassis. Reinforced and welded construction. Embossed aluminum bed with removable hardwood sides and metal trim. Decorative decals on sides. Heavy duty trunk type treaded rubber tires with die cast wheels. Detachable cab.

Stock No.	Mfr's. No.	Lgth	Ht	Wd	lb Each	Cat. List EACH
		Inches				
4H 167	6001	24½	6	6	6½	$9.45

One in a carton.

American Products

Hot Rod

Made of steel die-cast for toughness. This car is propelled through a tether for whip racing. It is also designed so that a motor can be installed in the rear of the car.

Stock No.	Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
	Inches				
4H 2302	9⅜	4¼	3½	15½	$3.96

One dozen in a carton.

Structo

Combination Cab and Two Trailers

Set includes one cab and a 702 trailer and 704 trailer. Packed in an easy to set up display carton.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
		Inches				
4H 4353	706	20⅝	5⅝	5⅜	104	$8.50

One in a carton.

Machinery Truck and Steam Shovel

Made of heavy gauge steel. Color, orange. Removable loading skid. Crank operated winch with steel chain. Hood raises revealing Fireball motor. Rubber wheels. Heavy duty steam shovel same as No. 105.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
		Inches				
4H 4367	402	21½	6⅜	6½	82	$6.95

Both toys packed and shipped as one unit.

Heavy Duty Steam Shovel

Crank controls automatic unloading of shovel. Cab revolves. Rubber tractor treads. Color, blue.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Doz	Fact. List EACH
		Inches				
4H 4365	105	21½	6½	7⅞	38	$3.49

One in a carton.

Road Grader

Bright orange color. Front wheels steerable. Rotating scraper blade. Blade can also be raised, lowered and tilted. Heavy duty rubber wheels. Rear wheels floating tandem type. Realistic diesel motor.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
		Inches				
4H 4354	300	18	7	7½	62	$5.49

One in a corrugated box. Six in a carton.

Utility Truck

Red cab with blue body. Travis bucket raised by crank, top opens automatically to allow bucket to dump load. Truck also dumps. Rubber wheels. Hood raises revealing Fireball motor.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
		Inches				
4H 4368	500	21½	6⅜	7⅜	70.	$5.49

One in a carton.

Aerial Fire Truck

Red body with yellow ladders. Made of heavy gauge steel. Rubber wheels. Ball rings. Three 15 inch extension ladders raised or lowered by crank mechanism. Hood raises revealing Fireball motor.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
		Inches				
4H 4366	250	24	6½	6½	51	$4.29

One in a carton.

Gasoline Truck

Red cab and body, natural aluminum chassis, six rubber wheels, front wheels adjustable, motor brake, sturdy clock spring motor. Heavy gauge steel body.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
		Inches				
4H 4361	866	18⅜	5⅝	5	41	$4.29

One in a box. Six in a carton.

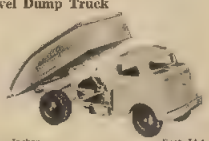
Hi-Lift Dump Truck

Red cab, blue body, natural aluminum chassis. Hi-Lift dump body raised by crank, six rubber wheels, front wheels adjustable, motor brake, sturdy clock spring motor. Heavy gauge steel body.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Doz.	Fact. List EACH
		Inches				
4H 4362	844	12½	5⅝	5⅞	46	$4.29

One in a box. Six in a carton.

Shovel Dump Truck



Color, orange cab, dark blue body, natural aluminum chassis. Body raised by crank. 6 rubber wheels.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Each	Fact. List EACH
		Inches				
4H 4357	605	12¼	5½	5	6	$3.60

One in a box. 6 in a carton.

Dump Truck

Color—red. Body raises and unloads automatically. Hood raises revealing Fire Ball motor. 4 rubber wheels. Withstands rough handling.

Stock No.	Mfr's. No.	Lgth.	Wd.	Ht.	lb Each	Fact. List EACH
		Inches				
4H 4369	200	20	6½	6½	4½	$3.50

One in a carton.

Tootsietoy

Motors Set

Nine piece set of latest design cars, trucks and one big P-38 plane, all with "Rol-Easy" construction and rubber wheels. Exact miniatures that look and roll like the real ones. All finished in assorted brilliant colors. Packed in lithographed gift box.

Stock No.	Mfr's No	lb Doz.	Cat. List SET
4H 3380	7200	21½	$2.25

Two dozen sets in a carton.

Motor Set

Set of four proven Jumbo Tootsietoys, Greyhound Silversides bus, big modern oil truck, Cadillac touring sedan and a Diamond T stake body truck. "Rol-Easy" construction. Rubber wheels.

Stock No.	Mfr's. No.	lb Doz.	Cat. List SET
4H 3382	7250	16	$1.55

Three dozen sets in a carton.

Truck and Disc Harrow

An authorized reproduction of the famous Ford tractor and disc harrow used by the modern farmer. Tractor size: length 4¾ inches, width 2¾ inches, height 2¾ inches. Disc harrow, length 2¾ inches, width 3⅝ inches, height 1 inch. One set in illustrated gift box.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 3376	259	6	$0.90

Six dozen in a carton.

Auto and Truck Assortment

The latest models, perfectly detailed in miniature, 4 inches long with "Rol-Easy" construction. Rubber wheels. Packed six or more kinds to a box of one dozen.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 3385	1180	28	$0.21

Twenty four dozen in a carton.

Tootsietoy

Airplane Assortment

One Army and three civilian planes. Planes are Navion; P-80 Shooting Star; Piper Cub, Sky Sedan, Beechcraft Bonanza. Silver and red finish. Three of each kind to box of one dozen

Stock No.	Mfr's No.	lb Doz.	Cat. List EACH
4H 3393	1200	1¼	$0.20

Twenty-four dozen in a carton.

Playtime Motor Set

Set consists of 6 assorted pocket size cars and trucks 3¼ inches long and one airplane 3⅛ inches long with a 4⅛ inch wing spread. All have rubber wheels and are finished in assorted bright enamel colors. A perfect set for children, ages 2 to 6 years. Attractively packed in a gift box.

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
4H 3389	5149	1	$1.50

Thirty-six in a carton

Fire Department Set

Set consists of 1 aerial ladder truck 8¾x1¾x2 inches, ladder tower with extension measures 5¼ inches, raises and revolves. Fire engine is latest design 6x1¾x3 inches, fire chief's car is 4 inches long, fire ambulance with red cross markings, 4 inches long. All with Tootsie Toy exclusive "Rol-Eez" construction, rubber wheels; 2 extra ladders 3½ inches long, junior fire chief badge that can be worn, miniature fireman's axe, shovel and 2 hats. Packed in a beautifully designed box

Stock No.	Mfr's. No.	Box Size In.	lb Each	Cat. List EACH
4H 3377	6211	18x10x2¾	1½	$2.25

Twenty-four in a carton.

Car and Truck Assortment

Ten different models, all 3¼ inch long, with "Rol-Eez" rubber wheels, assorted colors. Packed three of each kind in box of two dozen.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 3390	529	1¾	$0.15

Twenty-four dozen in a carton

Midget Racer

Here is a miniature of one of today's greatest sports. Length 3½ inches, width 1⅝ inches with "Rol-Eez" rubber wheels. One dozen assorted colors to a box.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 3394	1152	1¾	$0.20

Twenty-four dozen in a carton.

Oil Truck Assortment

Contains four nationally known oil trucks, each in their own color, 6 inches long with "Rol-Eez" wheels. Three of each to a box of one dozen

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 3397	2029	3¾	$0.35

Twelve dozen in a carton

Tootsietoy

Interchangeable Truck Set

Change the tractor cab to the shipping van, utility truck or heavy machinery hauler "Kol-Easy" rubber wheels on all units. Packed in lithographed box.

Stock No	Mfr's. No.	lb Doz.	Cat. List SET
4H 3386	4900	5½	$1.85

Three dozen in a carton.

Auto Transport

Double deck auto carrier with "Kol-Easy" rubber wheels. Hauls four cars ready to unload and drive away. Packed in colorful box.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 3395	207	8	$0.95

Six dozen in a carton

Freight Train Set

A popular miniature freight set of six pieces. The detail in each item is amazing and this set could be classed as a collectors item. Packed in illustrated gift box.

Stock No.	Mfr's. No.	lb Doz.	Cat. List SET
4H 3381	5550	15	$1.70

Three dozen in a carton.

Fast Freight

Real freight of five pieces: locomotive, tender, box car, oil tank car, caboose. Packed one set in colorful box

Stock No	Mfr's. No.	lb Doz.	Cat. List EACH
4H 3389	186	5½	$0.80

Six dozen in a carton

House Trailer and Car

Kahn & Co.

Outfit includes 24 pieces indoor and outdoor furniture, fencing and shrubs. All pieces are exact and minutely detailed miniature models made of sturdy bright plastic, realistically colored. Trailer top lifts off so furniture can be arranged and rearranged. Trailer can hitch and unhitch. Wheels turn for realistic traveling. Trailer and car are 10x4½x3¾ inches, other pieces are in proportion.

Stock No.	lb Each	Cat. List EACH
4H 4501	1½	$3.00

Twelve in a carton.

Treasure Chest of Toys

Thomas

Treasure chest consists of a large chipboard self display chest containing 6 dozen assorted 10c plastic toys. 1 dozen each of 6 different items.

Stock No.	Mfr's. No.	Size In.	lb Each	Cat. List ASST.
4H 3347	TMC1980	18¾x10¾x4½	5	$7.20

Eight in a shipping carton

Ideal Toy

Road Building Set

Set consists of all necessary items for road building in colorful plastic. Dump truck, cement mixer truck, pickup truck, road scraper, engine wheelbarrow, workmen pick, shovel and sledge. Displayed in a window box.

Stock No.	Mfr's. No.	Box Size In	lb Each	Cat. List EACH
4H 3278	4871	15x14½	1½	$2 20

Six in a carton.

Fix-It Truck

A practical educational toy complete with mechanic's repair kit. Truck has lift up side compartments and tire storage lockers. Kit includes a plastic lift jack that really works. Plastic tires that can be changed. All the tools to do a real job: spare tire, wrench, screwdriver and hammer. Packed like a mechanic's tool box.

Stock No.	Mfr's. No.	Size In.	lb Each	Cat. List EACH
4H 3275	3059	8½x8⅞x8½	⅝	$1 40

Twelve in a carton.

Fix-It Convertible

Modern streamlined convertible made of colorful plastic. Car comes complete with plastic tires that can be changed. All the tools necessary to do a first class repair job.

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
4H 3281	3068	1¼	$3.00

Six in a carton.

Paint Truck

Multi-color plastic construction rubber wheels. Has 3 detachable ladders, 6 detachable paint buckets, 3 brushes, separate compartment for paint and brushes.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Each	Cat. List EACH
4H 3280	3073	12	5	4	1	$1 75

Twelve in a carton.

Bubble Express

Multi-colored plastic pull toy designed like old fashioned steam engine. Moving piston rods as wheels rotate. As wheels turn, compressed air is forced through a container of bubble solution in smoke stack, leaving a trail of colorful bubbles.

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
4H 3279	4133	2	$3.15

Six in a carton.

Texaco Gas Pump Bank

All plastic bank, authentic duplicate of Texaco gasoline pump with attachments. Detachable nozzle and hose. Bell rings as money is dropped in slot on top of pump. Disk on bottom to remove money. Behind red with Texaco globe and pump panel.

Stock No.	Mfr's. No.	Size In.	lb Each	Cat. List EACH
4H 3277	4173	9x8⅛x2⅜	½	$1 00

Twelve in a carton.

Pantry Set

Set consists of 6⅝x3¾ inch bread box, mixing bowl, small tea cannister, large sugar cannister, juicer, 5 oz. measuring cup, casserole strainer, pancake turner, scoop, salad fork and spoon, 3 piece spice rack. Packed in box simulating a cupboard.

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
4H 3276	4640	1½	$3.00

Six in a carton.

Lincoln Line—Roto Roll Toys

Roto Roll propulsion enables toys to travel over 100 feet on a smooth surface with just one push. Pressure made for perfect balance. Roto Rolls travel farther than toys with friction or wind-up movements and requires less energy or original impetus.

Stock Car

Junior mechanics stock car racer with realistic bumps and dents, inflated tires and authentic motor sound. Trunk contains spare pneumatic tire, jack and lug wrench for use in changing tires (all wheels easily removed). Under the hood are separate and removable air filter, engine heads, battery, fan and block. Packed assorted, red with yellow and black trim and yellow with red and black trim.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Each	Cat. List EACH
4H 4248	51	11½	4½	4	1	$1 70

Twelve in a carton.

Heny J

Scale made replica of the Kaiser-Frazier's Henry J. Die cast grill and bumpers, acetate plastic body, steel bottom plate, rubber wheels and recoil motor. Packed assorted colors—red, yellow and green. Each in a sleeve.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Each	Cat. List EACH
4H 4249	101	7½	2¾	2½	½	$1 00

Twenty-four in a carton.

Roto Roll Truck

Packed assorted: Swift, Carnation, Kraft and Curtis.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Doz.	Cat. List EACH
4H 4250	21	4	2	2	4½	$0 55

One dozen in a carton. Three dozen in a master carton.

Roto Roll Racer

Packed in assorted colors: red and white, blue and white, green and white.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Doz.	Cat. List EACH
4H 4251	71	8¼	2½	1¾	4½	$0.55

One dozen in a carton. Three dozen in a master carton.

Roto Roll Trolley

Realistic trolley with a loud continuous clang (bang). Packed assorted red and green with silver windows and trim. Individually boxed.

Stock No.	Mfr's. No.	Inches Lgth.	Wd.	Ht.	lb Doz.	Cat. List EACH
4H 4252	45	14	3	3½	18	$1 90

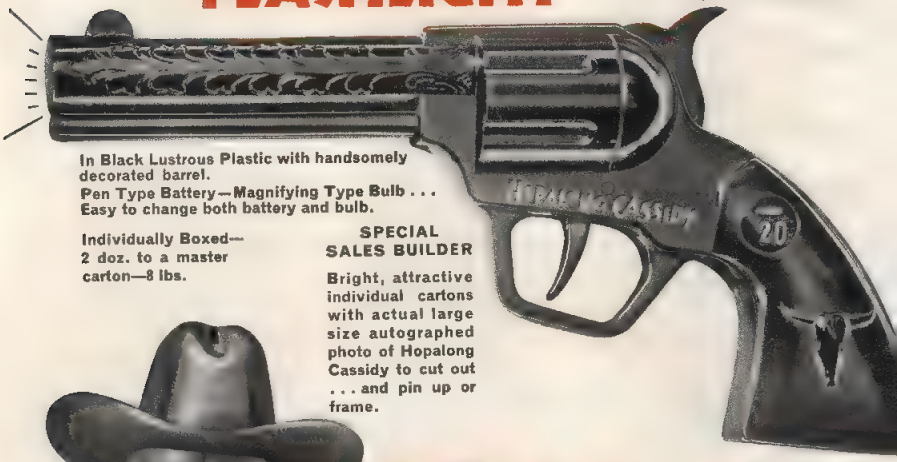
One dozen in a master carton.

CAPTURE BIG SALES

from millions of HOPALONG CASSIDY fans!

HOPPY PISTOL FLASHLIGHT

To Retail at 79c Fair-Traded



In Black Lustrous Plastic with handsomely decorated barrel.
Pen Type Battery—Magnifying Type Bulb . . . Easy to change both battery and bulb.

Individually Boxed—2 doz. to a master carton—8 lbs.

SPECIAL SALES BUILDER

Bright, attractive individual cartons with actual large size autographed photo of Hopalong Cassidy to cut out . . . and pin up or frame.

HOPALONG CASSIDY BANK

To Retail at 29c Fair-Traded

Handsomely sculptured statuette of Hopalong Cassidy in lustrous, brilliantly colored plastic. Has immediate sales appeal.

Individually Boxed—3 doz. asst. colors to a master carton—6½ lbs.

Sole Sales Representative
HENRY KAT
200 Fifth Avenue
New York 10, New Yo

TOPPER TOYS, INC.

2000 West Fulton Street ★ Chicago, Illinois

SPURS

#492 RHINESTONE SPURS.

Metal casted spurs, each studded with 7 multi-colored rhinestones, nickel plated metal chain, genuine leather straps, nickel plated jingle bell on each strap. Each pair mounted on an attractive western card. Packed 2 dozen to carton.

Doz. $4.80

No. 194 - Metal Spurs

5" x 3½", adjustable genuine leather strap with jingle bell; each pair on a card, packed 2 dozen cards to carton.

Doz. $2.25

CAP PISTOLS

RED RANGER

No. 72 - AUTOMATIC REPEATING CAP PISTOL

24 Carat Gold Plated - A Western type paper cap pistol, die cast - Beautifully finished in 24 Carat Gold Plate - Black plastic grips - Engraved body and barrel - Automatic opening device for easy loading - Break action - 7½" long - Absolutely safe - cap chamber enclosed - Packed in a very beautiful two piece display box.

Doz. $10.00

NEWELL Automatic 6-Shot Air-Fire REPEATER GUN

Patented

No. 595

The Newell Automatic Air-Fire Gun has unusual eye appeal. Fires 6 Table Tennis balls with one loading.

The beautifully designed stock, which is a reproduction of a real gun, and the firing grip are made from Tenite plastic with a light walnut finish.

Truly a gun that will satisfy the desire of Sportsmen as well as Youngsters.

The barrel and airpump are made of heavy aluminum which is light in weight but very sturdy.

This is another of NEWELL'S Harmless Toys.

Each Newell Repeater Gun is individually packed in an attractive 4-color carton, which has instant eye appeal. Furnished with 7 table tennis balls.

No. 595 NEWELL AIRFIRE REPEATER GUN

PACKED: One in an individual carton, 6 to 12 to reshipping carton.

Doz. $48.00

Patented

No. 1008 Newell Airfire Sub-Machine Gun

Barrel and ammunition chamber made of Reynolds heavy aluminum. Extruded aluminum guide rod. Other parts are of Tenite plastic, Light Walnut finish.

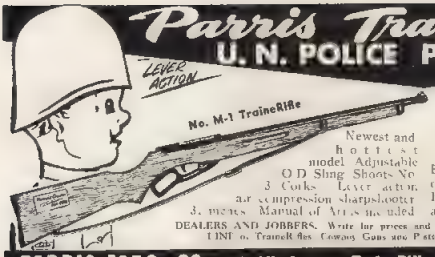
No. 1008 Newell Air-Fire Sub-Machine Gun

Packaged: One in carton, 12 to reshipping carton.

Doz. $28.00

Parris TraineRifles and U. N. POLICE PISTOLS

LEVER ACTION



No. M-1 TraineRifle

Newest and hottest model Adjustable QD Sling Shoots No. 3 Corks Lever action air compression sharpshooter 3 pieces Manual of Arms included

CORK SHOOTING

U. N. Police Pistol No. 7

WITH LEATHERLIKE HOLSTER

Beautiful plastic and metal cork pistol No. 3 corks Breech breaking cocking action 9 inches long

DEALERS AND JOBBERS. Write for prices and discounts on complete PARRIS LINE of TraineRifles Cowboy Guns and Pistols 10 models and sizes

PARRIS MFG. CO. World's Largest TraineRifle Mfrs. **CLARINDA, IOWA, U.S.A.**

MAKIT TOY

THE COLORFUL CONSTRUCTION TOY

IMPROVED and ENLARGED

—PROVEN POPULARITY—

A YEAR 'ROUND BEST SELLER

PRIMARY MAKIT.. 93 Pieces

SUPER MAKIT.....183 Pieces

JUMBO MAKIT.....292 Pieces

W. R. BENJAMIN CO.

MAKERS OF MAKIT TOYS

GRANITE CITY ILLINOIS

a **new** *and* **different** *motion model*

every day... for many years

5 sizes

- *Junior*
- *Wonder*
- *Special*
- *Senior*
- *Deluxe*

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TELEPHONES
CHIMES • BELL TOYS

STEEL TOYS OF QUALITY

BICYCLE BELLS

THE N. N. HILL BRASS CO.

NEW YORK SHOWROOM:

ROOM 463—FIFTH AVENUE BUILDING

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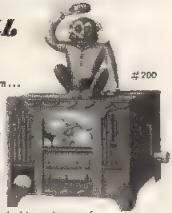
Jocko *MUSICAL* GUM BANK

NEW 4-WAY TOY HIT!

Saves Money... Dispenses Bubble Gum... Plays A Tune... Jocko Tips His Hat! All Plastic Jocko comes in gay red, and yellow

Send for Illustrated Literature & Price List



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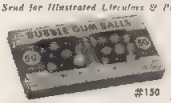

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Refills packed in containers of 50 gum balls. Suggested retail price— **29¢**

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GOLDBERGER

THE QUALITY DOLL AT POPULAR PRICES

- BABY DOLLS
- ALL LATEX DOLLS *featuring* 28" All Latex Dolls
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Get Quick Turnover, High Profits with *SLINKY*, the Walking Spring

Customers stop, look—AND BUY when you display this amazing toy and its companion game, Slink-em. Slinky toys use little space, move fast the year 'round. Slink-em retails at $1.50. Slinky sells like magic at $1.00.

For full information write

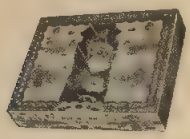
JAMES INDUSTRIES, INC.

Clifton Heights, Pa.

Agents in New York, Philadelphia, Boston, Atlanta, Chicago, Denver, San Francisco, and Seattle

Plastic Dishes

46 Piece Blue Willow Tea Set—Ideal



Set consists of 6 cups, 6 saucers, 6 plates, teapot and teapot cover, sugar bowl and creamer, 6 spoons, 6 knives, 6 forks, 6 napkins.

Stock No.	Mfr's. No	lb Doz.	Fact. List EACH
4H 2857	4629	25	$3.50

29 Piece Pearlton Tea Set

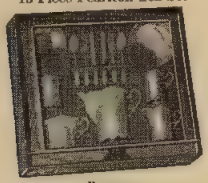
Banner

Molded in pearlized plastic. Set consists of 1 tea pot, 1 creamer, 1 sugar bowl, 2 covers, 4 cake plates, 4 saucers, 4 cups, 4 knives, 4 forks, 4 spoons. Packaged in a window display box.

Stock No.	Mfr's. No.	Box Size In.	lb Each	Cat. List EACH
4H 976	1202	19x12½x3	⅝	$2.00

Twelve in a carton.

13 Piece Pearlton Tea Set



Banner

Molded in pearlton plastic. Set consists of 1 tea pot, 1 creamer, 1 sugar bowl, 2 cups, 2 saucers, 2 knives, 2 forks, 2 spoons. Packaged in window display box.

Stock No.	Mfr's. No.	Box Size In.	lb Each	Cat. List EACH
4H 975	602	10½x12x3	½	$1.00

Twenty-four in a carton.

13 Piece Jr. Stewardess Plastic Dinner Set

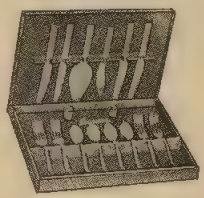
Banner

An exact replica of the dinner service used in all United Airline planes. Set includes tray, cup, plate, salad bowl, dessert bowl, 3 pieces of plated tableware, stewardess hat and pin, flight packet, 2 napkins. Packaged in 4-color display box.

Stock No.	Mfr's. No.	Box Size In	lb Each	Cat. List EACH
4H 979	1200	22½x9½x4	1¾	$2.20

Twelve in a carton

17 Piece Metaltone Tableware and Chest



Banner

All pieces finished in Metaltone process, Silver-like finish. Packaged in gunmetal mahogany covered cardboard hinged chest. Set contains 4 knives, 4 forks, 4 spoons, 1 cake server, 1 butter knife, salt and pepper shakers.

Stock No.	Mfr's. No.	Chest Size In	lb Each	Cat. List EACH
4H 977	535	8½x6x1	⅜	$1.00

17 Piece Kiddie Jewelry Glitter Chest

Banner

Two complete sets of jewelry finished in Metaltone process. One set in gold-like finish, the other in silver-like finish. Packaged in sturdy, drawer-type jewelry chest with imitation leatherette finish.

Stock No.	Mfr's. No	Box Size In.	lb Each	Cat. List EACH
4H 978	900	6x6x2¼	⅛	$1.70

Aluminum Toys

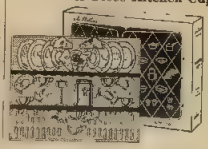
17 Piece Kitchen Range Set

Packed in a box designed to look like mother's kitchen range. Contains a cooking assortment of toys filled with play value. Special bright aluminum finish. Red enameled handles, knobs and coffee maker top. Set consists of, covered sauce pan, roaster, drip coffee maker, angle cake pan biscuit pan, fry pan, cookie sheet cake turner and 4 cookie cutters.

Stock No.	Mfr's. No.	Size In.	lb Doz.	Cat. List EACH
4H 968	576T	11x9x6	16½	$2.80

One-half dozen in a carton.

45 Piece Kitchen Cupboard Set



A colorful kitchen cupboard box filled with a complete service for six. Cupboard box adds to play value makes playing house more realistic. Toys special bright aluminum finish. Red enameled percolator cover and handle. Set consists of percolator 6 plates, 6 cups, 6 saucers, 6 knives 6 forks, 6 spoons and 6 napkins

Stock No.	Mfr's. No.	Size In.	lb Doz.	Cat. List EACH
4H 969	578T	18x14x4	32	$2.80

Three in a carton

Plated Steel Juvenile Sets

Beauty Brite—Krest

4 Piece Frying Set

Set consists of frying pan, fry ladle, flipper and [illegible]

Stock No.	Mfr's. No.	Box Size In.	lb Each	Cat. List EACH
4H 980	318	11x8¼x1¼	2½	$0.60

Twenty-four in a carton.

8 Piece Kitchen Set

Set consists of [illegible] frying pan, potato masher mixing spoon table spoon sauce pan and cover.

Stock No.	Mfr's. No.	Box Size In.	lb Each	Cat. List EACH
4H 981	426	14½x10¼x1¾	1	$1.00

Twenty-four in a carton

14 Piece Kitchen Set

Set consists of, sauce pan and cover, potato masher egg beater flipper rolling pin, dutch oven and cover, mixing spoon, table spoon ladle, fry'ng pan and grater

Stock No.	Mfr's. No.	Box Size In.	lb Each	Cat. List EACH
4H 982	421	20x14½x2¼	2¾	$2.00

Twelve in a carton.

Plastic Dishes

Blue Willow Tea Sets

New blue willow plastic dishes in the world famous chinese pattern is exquisitely reproduced on ideal dishes. Beautifully packaged in acetate window boxes decorated with the authentic blue willow design. Charming table of blue willow in every package

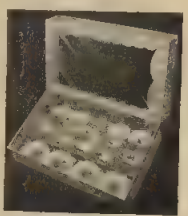
15 Piece Set

Set consists of 2 cups, 2 saucers, teapot, teapot cover, sugar bowl or creamer 2 spoons, 2 knives, 2 forks, 2 napkins.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 2855	4625	10	S$1.00

One dozen sets in a carton.

32 Piece Set

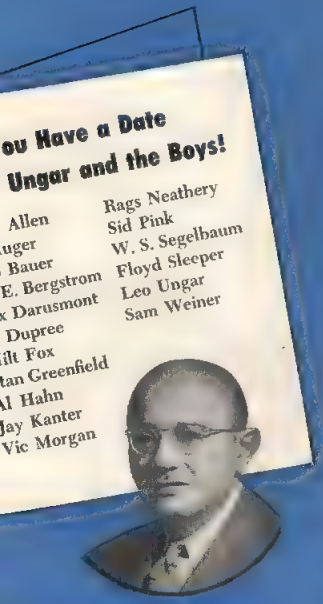


Set consists of 4 cups, 4 saucers, 4 plates, 4 knives, 4 forks, 4 spoons, teapot teapot cover sugar bowl creamer and 4 napkins.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 2856	4623	19	S$2.00

One dozen sets in a carton.

2 Great New POOSH-M-UP Profit-Makers for 1951



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PERMANENT DISPLAY:

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Put your visit to NORTHWESTERN on your "top priority" list. More than 17,000,000 Northwestern games and toys have been sold—conclusive proof that they're tops in their field!

ATTENTION! CANADIAN CUSTOMERS

Poosh-M-Ups are now manufactured in Canada by

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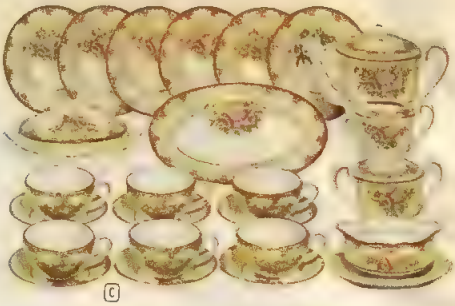
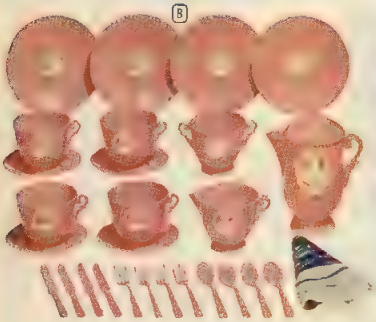
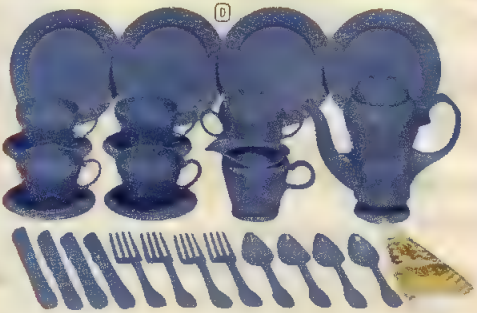
See their representatives at Northwestern exhibits.







Toy Tea Sets for Little Girls

A BLUE WILLOW TEA SET. Genuine imported China, in attractive Blue Willow pattern. Traditional shape in dainty, thin body. The right size pieces for little hands.

Service for 4. Has 4 cups, 4 saucers, 4 plates, Cake Server, Sugar Bowl with Lid, Cream Pitcher, Vegetable Dish with Lid, Platter and Gravy Boat.

4B T4603. Ship wt 4 lbs. . . . . 2 Pc Set $1.69

Service for 4. Has 4 plates, Cake or cracker serving piece to remove but ... Ship Wt ...

4B T4682—Ship wt 3 lbs. . . . . 2.0 Pc Set 1.35

B ROSE MARIE BORDER AND FLUTED. Pink rose ... with gold trim. White ... china with a fluted shape for ease in handling.

Service for 4. Has 4 cups, 4 saucers, 4 plates, Cake Server, Sugar Bowl with Lid, Cream Pitcher, Vegetable Dish with Lid, Platter and Gravy Boat.

4B T4604. Ship wt 11 lbs. 8 oz. . . . . 21 Pc Set 2.98

C ROSE BORDER TEA SET. Genuine imported ... China. Make ... Service for ... Has ... pieces ... Teapot with Lid, Sugar Bowl with Lid, Cream Pitcher, vegetable ... Platter, Gravy Boat.

4B T4605. Ship wt 11 lbs. . . . . 27 Pc Set 2.98

D BLUE BAND. A ... Shades of blue plastic, attractively embossed. 5 pieces ... Has ... Cake Server, ... Bowl, Cream Pitcher, Platter, Gravy Boat.

4B T4606. Ship wt 2 lbs. . . . . 41-Pc Set 2.98

Service for 4. Has 4 Plastic Cups, Saucers, Knives, Forks, Spoons, Also Teapot and Sugar Bowl with Lids, Creamer, Paper napkins.

4B T4607. Ship wt 3 lbs. 8 oz. . . . . 45 Pc Set 2.45

E MAPLE LEAF. Hand-painted in Blue Willow pattern. Wrought with smooth edges. Item includes: Cake plates, 6 open sugar and cream sets, Tea ... Cake Server, Sugar Bowl, Creamer, Cake Basket with Cover

4B T4608. Ship wt 6 lbs. . . . . Set 95c

F BABY DELUXE. ... Pink ... with smooth rounded edges and ... Also ... Knife and Spoon. Plastic ... Set ... Cake ... Set ... Spoon ... Plastic ... Set ... Cake ... Set ... Spoon ... Plastic ... Set ... Cake ... Set ... Spoon ...

Model Toys

Built as rugedly as the heavy construction equipment from which they're scaled. They are toys that actually work. The road grader grades and smooths the "construction" site. The bucket loader fills the earth hauler and the concrete mixer can actually load, mix and pour real concrete.

Bucket Loader

Just like the real machine, equipped with all steel tread, all steel chain drive.

Stock No.	Mfr's. No.		Fact. List EACH
4H 4322	2001		$16 75

One in a carton

Heilner Scraper

Authentic realism and matchless quality combine to assure this Heilner scraper as A popular item. Massive construction, brilliantly colored in crimson, chrome and yellow. The Heilner scoops up earth to load itself, hauls it away and dumps it for the road grader or crane. It can tow other toys or be towed.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 4312	2011	12½	$16 75

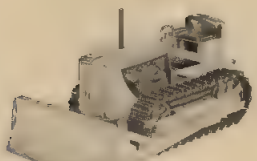
One in a box.

Unit Mobile Crane

All steel. Gear operated cab swings in a full 360 degree circle. Action controlled by gears. Die cast wheels, six famous rubber tires. Boom length 11½ inches. Hook and cable and standard equipment with the crane and are interchangeable. Both made of heavy rice.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 4315	2007	8⅛	$14 75

Tractor and Bulldozer



Built to resemble the full-size machine. Scraper blade adjusts from driver's seat and treads operate independently for sharp turns. Tractor equipped with diesel engine and draw bar for towing other Model Toys. Red and yellow enamel finish.

Stock No.	Mfr's. No.		Fact. List EACH
4H 4324	2012		$12.75

One in a carton

Road Grader

Tandem mounted wheels keep road grader level at all times. Scraper blade turns in 90 degree arc, adjusts three ways. All steel. Goodyear rubber tires. Overall length 28 inches.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 4317	2006	10	$14 75

One in a box

Euclid Truck

Authorized exciting reproduction of the mammouth and familiar Euclid "bottom-dump" truck. Trailer unhitches from universal coupling post so tractor can be used to tow other model toys. Steerable front wheels with 3 point suspension, six famous-make rubber tires. Loads and dumps with flick of lever. All steel, diamond back aluminum radiator grill. Overall length 27 inches.

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
4H 4318	2009	11	$14 75

One in a box

"D4 ability to pull large tools *ANSWERS* this cost problem"

... Stanley Jenkins, Lake Village, Indiana

This owner applies his years of Management Engineering experience to farming—produces Corn Belt crops with factory-like efficiency. Stanley Jenkins believes and proves that maintaining high production with minimum cost is essential—wherever farm or factory produces goods to sell.

That's why he has hitched his field-farming future to the sure traction and big capacity of a 6-plow "Caterpillar" Diesel D4 Tractor. He is elated with the results.

"D4's ability to handle the larger equipment is the answer to this cost problem," declares Mr. Jenkins. "The two 3-plow wheel tractors used about $12.00 of gasoline in an 8-hour day to plow 27 acres; the D4's fuel cost is $2.69 to plow 25 acres in 8 hours.

"The D4 will probably save its cost in 7500 to 8000 hours compared to equal gas tractor power.

"Two wheel tractors require two operators; the D4 only one. In other years, we've spent hours pulling mired wheel tractors from soft ground. This year we started plowing early in spite of wet spots, and the D4 takes us anywhere, without hesitation.

"We can disk 80 to 100 acres a day with the 22-foot tandem on about $3.00 worth of Diesel fuel. Investment in this machinery, to me, is the difference between profit and loss."

• • •

The D4 stars in this report. But the four other "Caterpillar" Diesel Tractors (32 to 130 drawbar horsepower) are delivering the same results to satisfied owners, on farms the country over. Why not find out what this man-saving, cost-tumbling power offers you?

CATERPILLAR TRACTOR CO. • PEORIA, ILLINOIS

Pulling six 16-inch bottoms at fourth speed, the D4 plows over three acres per hour, seven inches deep, on only 2½ gallons of non-premium fuel.

CATERPILLAR

REG. U. S. PAT. OFF.

Diesel Farm Tractors

DIESEL ENGINES · TRACTORS MOTOR GRADERS · EARTHMOVING EQUIPMENT

CATERPILLAR TRACTOR CO.
Dept. FJ 3—Peoria, Illinois

Gentlemen: I farm_____ acres. My main crops are_____.
Please send me your new booklet, "Diesel Thrift by 'Caterpillar'."

*Name*_____ *R.F.D.*_____

*Town*_____ *State*_____

Choice of the Tractor-Wise

WHEN it comes to determining tractor value, "experience is the best teacher." Thousands of today's John Deere owners know, from personal experience with other tractors, that you just can't equal a John Deere. These tractor-wise farmers and thousands more who "value shopped" before they bought have found that the exclusive John Deere "*two-cylinder* idea" pays much bigger dividends in dependable performance season after season . . . in fewer and far lower repair bills down through the years . . . in outstanding fuel economy.

Equally important, these owners have found that John Deere's advanced engineering provides a greater combination of modern operating features to speed up every power job, do it better, make it easier.

The more you know about John Deere Two-Cylinder Tractors, the more convinced you'll be that a John Deere is the tractor for you. See your John Deere dealer for the complete facts and a demonstration of the size and type that fits your needs. We feel certain you'll be on your way to more profitable, more enjoyable farming—with a John Deere.

JOHN DEERE

MOLINE • ILLINOIS

FOR POWER

Make it a Massey-Harris

WHILE you'll never need a tractor to pull an elephant, you do need the POWER of a Massey-Harris on your farm.

The extra horsepower in every Massey-Harris Tractor makes short shift of heavy-duty drawbar and belt jobs. Plowing and discing move along more easily . . . planting and cultivating, more swiftly . . . harvesting, more successfully. Tough spots no longer slow you down. You can cover more acres each day — get more work done.

And done more economically, too. Massey-Harris Tractors not only give you more actual horsepower at drawbar and belt, but also more power from every gallon of fuel. Operating costs are lower. Impartial tests and the performance records of thousands of owners prove this. Additional economy in terms of longer life and lower maintenance and repair costs results from Massey-Harris heavy-duty construction, precision manufacturing and quality control.

Work is easier with Massey-Harris Tractors for another reason. You work in greater comfort. Shock-proof steering saves arms and shoulders. The Velvet-Ride Seat cushions the shocks and jars of bumpy fields. The Depth-O-Matic two-way hydraulic system powers tools into the ground as well as out.

Among the six basic power sizes and 28 models, there's a Massey-Harris Tractor to fit your needs exactly. See your Massey-Harris dealer the next time you're in town. Let him give you all the facts about Massey-Harris Tractors and demonstrate one on your own farm, entirely without obligation. You'll understand why an ever increasing number of farmers say "Make it a Massey-Harris." For free folder by mail, use the coupon below.

1 Plow Pony · 2 Plow "22" 2 3-Plow "30" 3-Plow "44-6" 3-4 Plow "44" 4-5 Plow "55"

THE MASSEY-HARRIS COMPANY
Quality Avenue, Racine, Wis., Dept. C-220

Please send me a copy of your latest catalog of Massey-Harris Tractors.

Name .....
Town .....
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MAIL THIS COUPON

Get acquainted with the Exide Dealer. He knows batteries, understands your battery needs. And he's skilled in battery service—his modern equipment takes all guesswork out of testing and servicing. You can rely on his advice, depend on him for the *right* battery for your car, truck or tractor.

THE ELECTRIC STORAGE BATTERY COMPANY • Philadelphia 2

Exide Batteries of Canada, Limited, Toronto

Exide® Reg. Trade-mark U.S. Pat. Off.

LIVESTOCK

mother more than 30 seconds while it's being treated. And there's little pain to the lamb. Nature put the loose skin there, and the space can be filled with no harm.

Naylor points out that it's no trick at all to rig up the equipment. A home-made bottle holder will hold the saline solution of 5% dextrose in place. All you need, then, is a drip indicator, and tubing attached to a self-filling syringe, and a No. 19 veterinary needle.

Veterinarians or surgical supply houses will sell you the supplies, and teach you how to use them and keep them sterile. Naylor warms the solution to between 90° and 100°, and gives 10 cc's per pound of lamb.

"What this man is doing is good, sound treatment," says Dr. John D. Beck, veterinarian at the University of Pennsylvania. "I haven't heard of it being used for lambs before, but the principle is used right along in veterinary medicine, particularly with new-born calves. I don't see why it wouldn't work just as well with lambs.

"I'd give this warning, though: the farmer should know what he's doing, and he should use good judgment. He should talk to a veterinarian about how to do the job."

Neat Trick for Shut-In Pigs

Tack an old piece of inner tube on the wall inside your farrowing pen, or in the pig brooder. Smear it with a solution of minerals on your daily rounds. Your pigs won't get anemia or "thumps" from being shut up on concrete or wooden floors.

That's the advice of Dr. J. W. Bailey, Wisconsin veterinarian. You can make the mineral solution by adding 1 pound ferrous sulfate, 2½ ounces of copper sulfate, and 1 pound sugar, to 3 quarts of water. Or you can buy a mixture from your veterinarian.

The idea of using clean sod or painting the sow's udders is an old trick. But sometimes it's hard to find a

Feed and Shelter

Creep has room inside for calves to get out of storms on the Dwight Smoker farm, LaPorte County, Ind.

TRAV-LER 16 INCH TELEVISION

NEARLY 150 SQUARE INCH PICTURE AREA

Giant 16" Direct View Picture Tube. No-glare picture surface for easier viewing and better picture contrast. Photographic realism in daylight or normally lighted rooms. Nearly 150 square in. area

Push Button Tuning. Simplest and most convenient form of station selection Rugged construction with simplified operation assures long trouble-free life Just push the button.

Full Range High Fidelity Sound Circuit Eliminates static and reproduces the brilliant "highs and lows" with true fidelity. Speaker accoustically matched to ideal cabinet sound chamber

Radio Detector F/M. True sound reproduction Brilliant static free tone.
Super Power Chassis. Assures outstanding performance even in fringe areas where ordinary sets fail to bring in a clear picture Finest picture clarity in any reception area
Compensated Picture Control. New balance contrast circuit automatically balances contrast with brightness. Simplifies all picture adjustments.

Powerful Built-in Antenna. Performs wherever indoor antenna gives satisfactory performance. Automatically coupled for high and low frequency. Connections for outside antenna if desired
Automatic Lock-in Picture Circuit. Increases picture stability and prevents horizontal picture movement. Decreases local electrical or mechanical interference
Economical Operation. Average hourly current consumption only approximately 180 watts. About the same as console radio-phonograph combination.

Complete station coverage. Twelve push buttons are provided for quick easy selection of your favorite station. Simplified tuning controls Only 2 knobs required for adjusting picture and sound Tuning control also provided for fine adjustments on weak signals. Latest advanced type of receiver design eliminates warm up drift and microphics at high sound volume. Has 21 tubes plus 2 rectifiers and one no glare black 16" picture tube. Has a large alnico magnet for high efficiency and perfect tone reproduction. Acoustically balanced to reproduce the full range of high and low tones without distortion Operates on 110-125 volts A.C. of 60 cycles only. Underwriters approved. Beautiful console cabinet designed to blend with almost any room setting. Hand rubbed to bring out the rich natural loveliness of the finely grained mahogany finish. Bronze dial escutcheon and speaker grille. Console measures 21½" wide 36" high 20" deep
Retail 299 95 plus 8.66 F.E.T. and warranty.
No. 1R16R50A. Dealer's, each net **217.75**
(Add 8.66 F.E.T. and warranty.)

JACKSON RADIO PHONOGRAPH

3 SPEED AUTOMATIC RECORD CHANGER

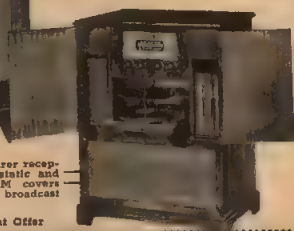
FM FREQUENCY MODULATION AND A M BANDS

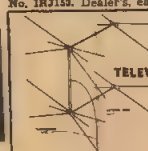
CABINET OF RICHLY GRAINED GENUINE MAHOGANY VENEER . . . WITH LARGE COMPARTMENTS FOR STORING RECORD ALBUMS

Priced right Smartly styled mahogany veneer cabinet. Phonograph is automatic plays 33 1/3 LP (Long Playing), 45 RPM and 78 RPM records, also intermixes 10 and 12 inch records, shuts off automatically when last record has finished. Radio straight A.C. 8 tubes including rectifier Covers full band of A.M and static free FM. Triode mixer and built in dipole with provisions for an external antenna 10 inch speaker, wide audio response, three position tone control, radio has slide rule dial Console measures 28½" wide, 15½" deep and 36" high Retail 199.50
No. 1RJ350. Dealer's, each net..... **131.57**

JACKSON AM RADIO WITH THREE SPEED AUTOMATIC RECORD CHANGER —Same as above except is A.M Radio, 7 tubes including rectifier Cabinet mahogany veneer Retail 149.50
No. 1RJ152. Dealer's, each net **111.80**

F.M. Offers clearer reception free from static and radio noises. A.M covers full standard broadcast bands.





New Tri-Craft "X" TELEVISION ANTENNA
Ideal for Fringe Areas Conical Type for Hi-and LO Reception.

Pre assembled. All wave; high gain in all channels and F.M. Matches 72-150-300 Ohm impendance. Complete instructions
No. 1R3000 with 8 ft. mast Retail 12.75
Dealer's, each **8.47**
lots of 3, each **8.17**. Less 2% net **8.01**

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TRAV-LER RADIO-PHONOGRAPHS

AMERICA'S OUTSTANDING VALUES . . . FEATURING . . . SMART CABINET STYLING . . . SUPERB TONE REPRODUCTION . . . EXCELLENT WORKMANSHIP.

PLAYS 10-INCH OR 12-INCH RECORDS

TRAV-LER RADIO-PHONO-COMBINATION

Beautiful Walnut Finished Table Model

Latest advanced type superheterodyne circuit 4 tubes including rectifier, 2 dual purpose tubes give 5-tube performance Powerful 4" P M dynamic speaker with Alnico V permanent magnet automatic volume control Lightweight crystal pickup arm, plays 10" or 12" records with lid closed. Walnut finished wood cabinet 14⅛"x12¼"x7¼" Underwriters Laboratories Listed. Retail 39.95.

No. 1RT5036.
Dealer's, each net... **28.17**

TRAV-LER DELUXE RADIO PHONOGRAPH Combination WITH 3 SPEED AUTOMATIC RECORD CHANGER

Plays 33 1/3 45 or 78 rpm records in 7" 10" or 12" sizes

RADIO PHONOGRAPH Combination

TRAV-LER RADIO-PHONO-COMBINATION

TABLE MODEL COMBINATION WITH AUTOMATIC 3 SPEED RECORD CHANGER

Brilliant performance, sensational price! 5 tubes including rectifier 2 dual purpose tubes give 6-tube performance Exclusive Trav-ler Webster automatic record changer, 3 speed tone control Powerful full tone 5-inch P M dynamic speaker Slide rule easy to read dial. Latest super heterodyne circuit with built-in loop antenna Mahogany finished cabinet, approximately 15"x19½"x9" Underwriters Laboratories listed. Retail 99.95.

No. 1RT5053.
Dealer's, each net... **68.05**

TRAV-LER RADIO-PHONO-COMBINATION 3 SPEED RECORD PLAYER

Plays **33⅓, 45, 78 RPM** records Latest advanced type superheterodyne circuit licensed under RCA and Hazetine patents, 3 RCA tubes and 2 dual tubes give it 5 tube performance. Standard broadcast band 538KC to 1720 KC including some police calls. Powerful P M, newly developed Alnico No. 5 dynamic speaker. Full vision dial easy to read and easy to tune Automatic volume control circuit, eliminates blasting and fading. Smooth operating electric motor with 8" turntable Switch arm adjustment for 33-1/3 45, and 78 R.P.M. turntable speeds Plays 7", 10" or 12" records. Operates on 60 cycles AC current only. Attractive modern design walnut finish cabinet with lid cover. Measures 12¼"x10"x7¼". Underwriters Laboratories listed Retail 49.95

No. 1RT5044.
Dealer's, each net... **35.17**

TRAV-LER DeLUXE

Plays 33 1/3, 45 or 78 rpm records

3 SPEED ELECTRIC PORTABLE RECORD PLAYER

TRAV-LER DeLUXE 3 SPEED ELECTRIC PORTABLE RECORD PLAYER

Plays 78 45 or 33 1/3 R P M Records Built in power amplifier 3 tubes including rectifier Powerful P M dynamic speaker with newly developed Alnico No 5 permanent magnet for improved tone quality and performance Smooth quiet operating electric motor with 8" turntable Simply switch arm for adjustment from 33 1/3 to 45 or 78 rpm turntable speeds Light weight crystal pickup arm with arm rest Has two long life needles for 78 or 45 and 33 1/3 rpm playing Simply turn crystal for changing 78 rpm to slow speed playing Plays 33 1/3, 45 or 78 rpm records in 7", 10" or 12" sizes. Cabinet — Very attractive high styled luggage type carrying case covered in two tone simulated leather Has matching leather handle Measures 6¼" H x 12½" W x 10½" D. Operates on 110 to 125 volts, 60 cycles AC only Retail 34.95.

No. 1RT7033. Dealer's, each net... **24.17**

LIMITED TIME ONLY: Travler electric portable phonograph No. 1RT7033 comes complete with $10.00 RCA Classical and Popular records.

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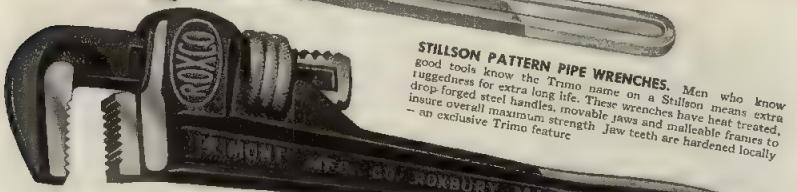
TIME TESTED

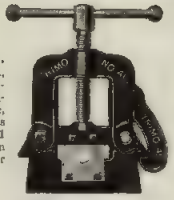
BEST KNOWN TRIMO BEST SELLER

TOOLS



STILLSON PATTERN PIPE WRENCHES. Men who know good tools know the Trimo name on a Stillson means extra ruggedness for extra long life. These wrenches have heat treated, drop-forged steel handles, movable jaws and malleable frames to insure overall maximum strength. Jaw teeth are hardened locally — an exclusive Trimo feature.

ROXCO WRENCH. A *stronger, lighter, handier* wrench for heavy duty — the Roxco Functional design eliminates useless metal, tiring weight, and strengthens critical stress points. Replaceable insert and removable jaw of drop-forged alloy steel with induction heat treated teeth. Positive grip with quick release for rapid ratcheting. Sizes 6" to 48".

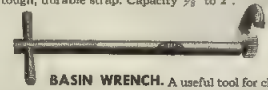


TRIMO PIPE VISE. Long jaws of hardened, tempered steel, double-bolted for guaranteed rigidity. Malleable iron yoke, frame and base. All parts interchangeable. No. 41 shown. No. 40B has apron and clamp for bench or post.

TUBE CUTTERS. Have special, sharp, thin wheels which assure a quick, right angle cut with minimum burr. Spring lock holds reamer out of way when not in use. Nos. 100, one-wheel type, and 200, one-wheel two-roller type, are pocket size with 1" O.D. capacity. No. 0, one-wheel two-roller type, has capacity to 1½"

"TRIMO-ALLOY" PIPE WRENCHES. This long-famous heavy duty pipe wrench exceeds Federal specifications. The ultimate in dependability is assured by drop-forged, heat treated steel handle. Also, by induction hardened teeth on removable jaw and insert jaw—an exclusive Trimo feature. Lower jaw is replaceable. Sizes 6" to 48"

STRAP WRENCH. Made of a special magnesium alloy, this Trimo wrench for polished pipe and tubing weighs only 7 oz., yet is amply strong for heavy duty. Has tough, durable strap. Capacity ⅛" to 2".



BASIN WRENCH. A useful tool for close-quarter work on basin nuts, traps, flush valves and ball cocks. Operates either right or left. Has drop-forged jaws with hardened teeth. Made in 11" size only.

TRIMO MONKEY WRENCH. Made in all-steel type only. Replaceable, movable, drop-forged jaw provides greater leverage, larger opening capacity per size. Large nut threads prevent jamming, assure quick, exact adjustments.

TRIMO PIPE CUTTER. Two tools in one. Easy substitution of wheels for rolls converts the new Trimo Pipe Cutter into either a one-wheel, two-roller type or a three-wheel type. No threads in frame . . . replaceable nut takes all wear. Drop-forged.

TRIMONT MANUFACTURING COMPANY

Division of Aetna Industrial Corporation, Inc.

55 to 71 AMORY ST. ROXBURY (BOSTON 19) MASSACHUSETTS

Mention Hardware Age When Writing

ground, and it is necessary to reach in nearly to the elbow to get them. I was reminded of our own woodchuck holes at home.

The black-back gulls are considerably larger and have a large wingspread, even up to four or more feet when spread out.

July 11 found us approaching Hopedale where we were to visit the Moravian Mission and the Eskimo inhabitants of Labrador. My first view of these mission buildings was an impression of a little fairyland of small white playhouses with bright red roofs, and above all stood the conical-shaped red roof of the Mission Church —symbol of the Christian Mission established in Hopedale years ago. The small mission boat with the local missionary and his young English wife were already on their way out to bid us welcome. The dock was swarming with a group of curious Eskimos, men, women and children, all anxious for us to come ashore. Aboard the mission boat were some of the little Eskimo folk, the first I had seen close up, who came up to us and smilingly peered into our faces with the salutation "Aksunai, Aksunai," meaning "Welcome, be strong!" All seemed to want to indulge in handshaking. Their eagerness to be with a white man from a faroff place was so delightful, yet so naive. One can excuse their lack of personal cleanliness when he sees them for the first time and later observes the conditions under which they live from day to day. I was convinced that I wanted to learn and know more of their origin, their daily life and customs.

Eskimos of the Labrador

To write of the Eskimos as they were in bygone days would be a fascinating project, but the past of these people must always remain somewhat of a mystery. They have left no written records; they are a nation without a history.

Many years have passed since civilization reached them. Yet I have seen their primitive whaling spears, their ancient flint weapons and soapstone cooking pots and lamps beside graves of those whose bones in some instances had not yet returned to dust. Armed with their flint-tipped weapons they hunted the bear and the reindeer; balanced in their tiny canoes they followed the seal and the walrus. Generation followed generation in the same dismal course. They made little or no progress until the Moravian Church came to them in 1771 bringing the good news of Christ, Savior of the World, and bringing new power into the hearts of these interesting people. Since then came the Missions at Hopedale, Nain, Hebron, Zoar, Okkak and Mokovik. There were at one time really six important Moravian settlements in Labrador. Today there are four looking out for the welfare of these native people.

The Eskimos I have seen and those I have pictured I found to be a kindly, smiling and hospitable folk, whose outlook on life and whose thoughts and ways of reasoning differ strangely from ours.

The Moravian Missions at Hopedale, Makovik, Nain and Hebron each have a representative group of Eskimo inhabitants. In recent years the teaching of some forms of English has been adopted with great success. Their schooling is ably supervised.

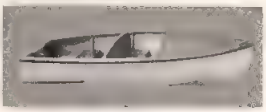
They gain their living from the sea—fishing and sealing, their everyday pursuits. Their knowledge of the land itself is limited to the few miles they travel to their fox traps and to the longer journeys up and down the coast they make in the spring on the tracks of the bear and caribou. They tell of a vast rolling wilderness behind the rocky heights fronting the sea, of untold miles of crisp moss upon which no man has ever trod.

Bound for Nain

Smiles and good welcome signs met us everywhere. This seemed to be the password. There was a noticeable absence of fullgrown sledge dogs due to an epidemic which swept in early in the spring and destroyed a full eighty percent of their dogs. Most of the old dogs left were careless of my presence, and only an occasional fight over food disturbed the atmosphere. The little pups were adorable, about four litters in all; cute little furry balls full of curosity like all little ones, and all wanting to be snuggled and held, provided the old dog wasn't around. There were a number of little children darting around, some playing with an old wooden ball, others playing tag like our own home kiddies. The parents were friendly folk waving to you from their little doorways or motioning for you to stop in. These were the people I had come North to visit—the Innuit race—"the people" (as they call themselves) known to us as the Eskimos.

Leaving Hopedale bound for Nain, we carried with us as passengers two of these Eskimo people—one a woman of some

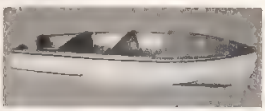
The 14 foot Trojan "Sea Queen" has always been one of the most popular outboard boats built . . . year in and year out best seller. In response to an annually increasing demand for a larger and smaller "Sea Queen" Trojan is proud to introduce the two newest additions to their popular line—the 12 foot and the 16 foot Trojan "Sea Queens." They are similar in every way to their famous prototype and all 3 "Queens" are available in Standard, DeLuxe and Super DeLuxe models with a variety of extras.



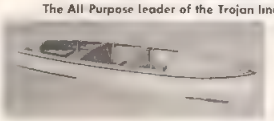
12 foot SEA QUEEN

Easy to transport. Ideal for the small family.

14 foot SEA QUEEN



The All Purpose leader of the Trojan line



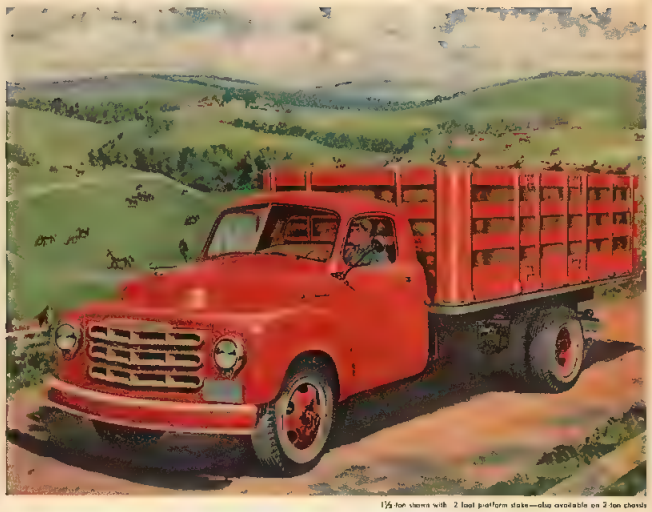
16 foot SEA QUEEN

The finest boat in a quality line.

13' EXPRESS—Designed to satisfy those members of the boating fraternity whose principle interest is Speed. Every line in the sleek, sharp, hull of the Express is put there to increase your rate of passage over the water.

Write for Free, New, Catalog which illustrates and describes every boat in the famous Trojan line.

TROJAN BOAT CO. • LANCASTER, PA.



1½ ton stores with 2 foot platform stake—also available on 2 ton chassis

A Studebaker truck is a stand-out money saver!

ALMOST everywhere you look, you see how popular Studebaker trucks have become.

The big savings that today's modernly designed Studebaker trucks are effecting have a tremendous appeal to profit-minded farmers.

As a matter of fact, Studebaker vehicles have rated at the very top in the farm transportation world for nearly a century.

Perhaps your own great-grandfather was one of many who drove a sturdy Studebaker farm wagon.

With 1951 now well on its way, Studebaker's 100th year has begun—and thrifty, durable Studebakers that may well be the finest values ever seen in trucks have been designed for today's requirements. They're well worth your investigation!

STUDEBAKER TRUCKS

Noted for low cost operation

A big range of sizes and wheelbases—½, ¾ and 1 ton pick-ups and stakes rugged 1½ ton and 2 ton models. Two great Studebaker truck engines—the Econ-o-miser and the high torque Power Plus.

Big-visibility windshield and windows let you see more, lessen driving strain. Variable-ratio steering helps to simplify turn-arounds and parking. Modernly designed springs assure you new riding ease.

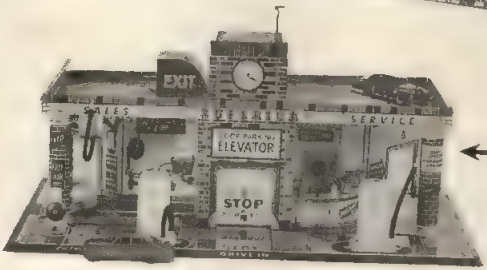
Low cab floor and fully enclosed safety steps! Tight-gripping rotary door latches that don't jolt open! Studebaker's wide 3 passenger adjustable seat has "finger tip" control and an Adjusto-Air cushion

Snug warmth for everyone! Studebaker's unique Truck Climatizer warms the whole cab—keeps the air fresh—helps keep windows and windshield clear. It's extra cost.

©1951, Studebaker, South Bend 27, Indiana, U. S. A.

THE
SUPERIOR
LINE

Lithographed Metal Toys

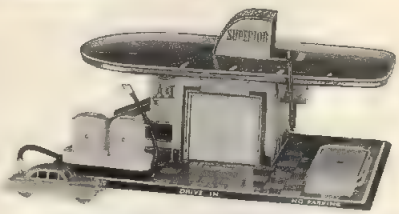


#66 Doll House
with plastic furniture

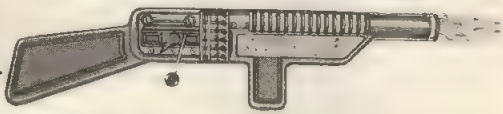
#25 Service Station

#44 Service Station

★ SAND SETS
★ NOISEMAKERS
★ METAL TRUMPETS
★ TIN HORNS
★ GARDEN SETS
★ METAL NOVELTIES



#77 Machine Gun →

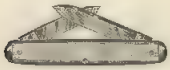


★ ★ ★ **T. COHN, INC.** ★ ★ ★

200 FIFTH AVENUE, NEW YORK 10, N. Y. (ROOM 806) OR-5-6185-6

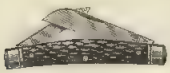
FACTORY: 845 65 STREET, BROOKLYN 20, N. Y.

ULSTER POCKET KNIVES



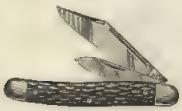
No. 73P

Slim Senator Pattern Pen Knife, 3⅛ inches long; Pearl Handles; 2 Blades (Spear and Pen); Brass Linings; Nickel Silver Tips; Blades Full Mirror Polished
Weight Per Dozen Approx 1 lb
No. 73P ..... Per dozen $12.00



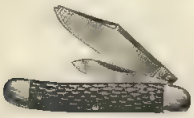
No. 66S

Congress Pattern Pen Knife, 3¼ inches long; Black Stagged Handles; 2 Blades (Sheepfoot and Pen); Brass Linings; Nickel Silver Bolsters; Blades Full Mirror Polished
Weight Per Dozen Approx 1⅛ lbs
No. 66S ..... Per dozen $12.00



No. 50G Genuine Stagged Handles

Slim Serpentine Jack Knife, 3¼ inches long; Stagged Handles; 2 Blades (Clip and Pen), Brass Linings; Nickel Silver Bolsters; Blades Full Mirror Polished
Weight Per Dozen approx. 1¼ lbs
No 50G ..... Per dozen $18 00



No. 40G Genuine Stagged Handles

Medium Serpentine Jack Knife 3½ inches long, Stagged Handles, 2 Blades (Clip and Pen), Brass Linings Nickel Silver Bolsters Blades Full Mirror Polished.
Weight Per Dozen Approx. 2 lbs.
No. 40G ..... Per dozen $18.00

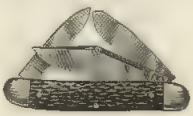
No 180S

Dogleg Jack Knife, 2⅞ inches long; Black Stagged Handles; 2 Blades (Clip and Pen); Brass Linings Nickel Silver Bolsters and Caps, Blades Full Mirror Polished.
Weight Per Dozen Approx. 1 lb.

No. 180S ..... Per dozen $12 00
No. 180P—Pearl ..... Per dozen 12.00
No. 180Y—Yellow ..... Per dozen 12.00

No. 347B Brown Stagged Handles

Premium Stock Knife, 3½ inches long; Stagged Handles; 3 Blades (Clip, Spey and Punch); Brass Linings; Nickel Silver Bolsters Blades Full Mirror Polished.
Weight Per Dozen Approx. 2 lbs
No 347B ..... Per dozen $18.00

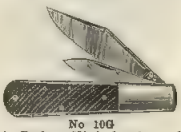


No. 345S Black Stagged Handles

Premium Stock Knife, 3½ inches long; Stagged Handles; 3 Blades (Clip, Spey and Pen); Brass Linings; Nickel Silver Bolsters Blades Full Mirror Polished.
Weight Per Dozen Approx. 2 lbs.
No. 345S ..... Per dozen $18.00

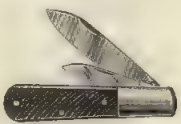
No. 55G Genuine Stagged Handles

Slim Premium Stock Knife, 3¼ inches long, Stagged Handles; 3 Blades (Clip, Spey and Pen); Brass Linings; Nickel Silver Bolsters Blades Full Mirror Polished
Weight Per Dozen Approx. 1½ lbs.
No. 55G ..... Per dozen $24.00



No 10G

2-Blade Barlow, 3⅜ inches long; Genuine Bone Handles; 2 Blades (Clip and Pen), Brass Linings; Iron Bolsters; Blades Full Mirror Polished; Packed one dozen to an attractive, full-color display card
Weight Per Dozen Approx. 2 lbs
No. 10G ..... Per dozen $12.00



No. 11G

2 Blade Barlow, 3⅜ inches long; Genuine Bone Handles; 2 Blades (Spear and Pen); Brass Linings; Iron Bolsters; Blades Full Mirror Polished; Packed one dozen to an attractive, full-color display card.
Weight Per Dozen Approx. 2 lbs.
No. 11G ..... Per dozen $12.00

No 2170B

Equal End Jack Knife, 3⅛ inches long; Brown Stagged Handles, 2 Blades (Clip and Pen), Brass Linings; Nickel Silver Bolsters Blades Full Mirror Polished
Weight Per Dozen Approx 1¼ lbs
No. 2170B ..... Per dozen $12.00

No. 231B Brown Stagged Handles

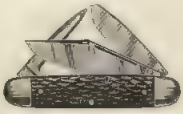
Equal End Jack Knife, 3⅛ inches long; Stagged Handles; 2 Blades (Spear and Pen); Brass Linings; Nickel Silver Bolsters; Blades Full Mirror Polished
Weight Per Dozen Approx. 2 lbs
No. 231B ..... Per dozen $12.00

No. 190A

Fish Knife, 5 inches long; Assorted Celluloid Handles; One Long Slim Clip Blade, Brass Linings; Nickel Silver Bolsters, Blade Full Mirror Polished.
No. 190A ..... Per dozen $12.00

No. 98G

Full Size Premium Stock Knife, 4 inches long; Genuine Bone Stag Handles; 3 Blades (Clip, Sheepfoot and Spey); Brass Linings, Nickel Silver Bolsters; Blades Full Mirror Polished
Weight Per Dozen Approx, 3 lbs.
No. 98G ..... Per dozen $30 00



No 37S Black Stagged Handles

Equal End Cattle Knife, 3⅜ inches long; Stagged Handles; 3 Blades (Clip, Spey and Punch), Brass Linings; Nickel Silver Bolsters Blades Full Mirror Polished.
Weight Per Dozen Approx. 2 lbs
No 337S ..... Per dozen $18 00

Pocket Knives packed one half dozen in a box except where noted

UNCLE SAM'S BANKS

*"You had one when **you** were a kid"*

America's Oldest

and

Most Successful

BANK LINE

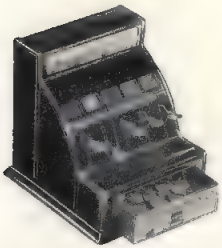
Staple Sellers from Coast to Coast

•

Thrift Knows No Season

THE UNCLE SAM'S LINE IS ALWAYS IN DEMAND

•



UNCLE SAM'S PLAYSTORE CASH REGISTER

Rich red enamel finish. 4¾" high, 4⅝" wide, 5⅛" deep. Individually boxed, 2 doz. to carton, 36 lbs., 2 doz.

UNCLE SAM'S 3-COIN REGISTER BANK

Black, red or blue enamel finish. 6⅝" high, 4½" wide, 5¼" deep. Individually boxed, 2 doz. to carton, ship. wt. 60 lbs.

UNCLE SAM'S Four Purpose HOME BUDGET BANK

Red or blue finish. 5¼" long, 4¼" wide, 1⅞" deep. 3 doz. to carton, wt. 36 lbs.

See Us At The

TOY FAIR

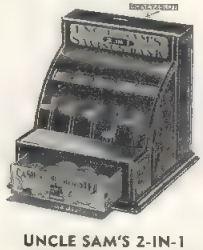
ROOM 927

•

HOTEL

NEW YORKER

A PAYSON JERRY FOX
M. O'CONNELL



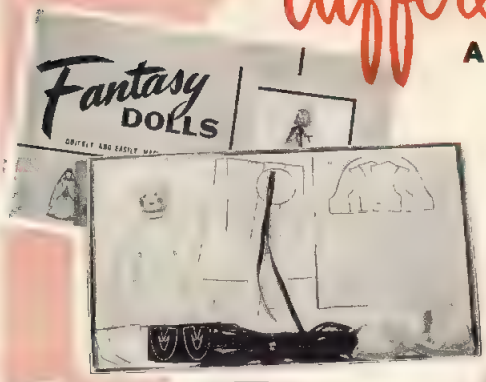
UNCLE SAM'S 2-IN-1 SAVINGS BANK AND PLAY STORE CASH REGISTER

Rich red enamel finish. 4" high, 5" wide, 5⅛" deep. Individually boxed, 2 doz. to carton, 36 lbs., 2 doz.

See your jobber or write DURABLE TOY & NOVELTY CORP. 175 ESSEX STREET Hackensack, N. J.

LOOKING FOR SOMETHING *different* AT THE TOY FAIR ?

SEE US AT THE McALPIN ROOM 548



Have a look at the exhibit on Fantasy Doll kits! Here's a craft that every girl loves! Whether she's 8 or 68 years old . . . a doll she can assemble and sew for has great appeal. Here you have merchandise with real class that sells low, makes profits for you! Our re-orders have proven it over and over again. Each kit furnishes all the finest precut materials necessary for the assembly of a 12-inch Fantasy Doll — from the pretty buckram face to her beautiful costume and accessories. Instructions are simple, easy to follow.

CLEVER!
CLEVER!
CLEVER!

BETTY AN' LOU KIT

Gives Them Two Dolls for the Price of One.
It's Novel!
Easy to Assemble!
Fun to Make!

AMERICAN TOYS

RETAIL	
Dixie (above)	$3.00
Bride	$3.00
Bridesmaid	$2.50
Debutante	$2.50
Betty an' Lou	$2.00

CHRISTMAS STOCKING!

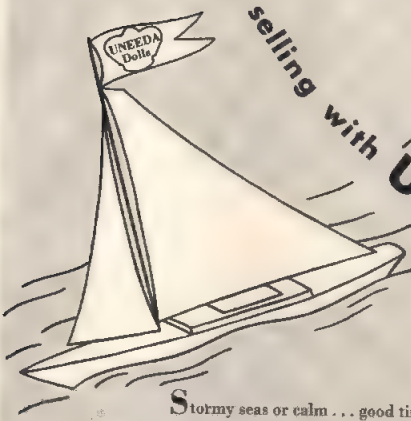
A sell-out in '50! Full tailored, good grade cotton fabric, white felt cuff, hand blocked decorations. Customer transfers any name to the stocking with a stroke of a hot iron! (3 sets of the alphabet with each stocking.) Measures 19 inches from top of cuff to toe.

79c

Fantasy DOLLS
502 CRAIG STREET
CORPUS CHRISTI, TEXAS

Representatives.
W. E. Bergstrom Co., 623 Exchange Bldg., Denver, Colo.
Howard D. Chaddock, 984 Sheridan, Memphis, Tenn.
T. F. Sanford Co., Hendersonville, N. C.
Wm. T. Starr, 3844 Travis St., Dallas, Texas
Donald Marx, 4412 Sunset Blvd., Hollywood 27, Calif.

it's always smooth selling with UNEEDA DOLLS



Stormy seas or calm . . . good times and bad . . .

for 35 years the name Uneeda has been synonymous

with Reliability. That's why

"It's Always Smooth Selling with UNEEDA DOLL!"

See America's Most COMPLETE Line of Popular-Priced Dolls at

Uneeda DOLL CO., INC.

N. Y. Toy Fair: Rooms 661-663-665, Hotel McAlpin (Morris Sklarsky, Henry A Sussman)
Room 511, 200 5th Ave., New York 10, N. Y. (Daniel Sklarsky)

Office and Factory: 425-427 Broome St., New York 13, N. Y., WOrth 4-1850 • *Southwestern States:* M. K. Boone, 1502½ Young St., Dallas 1, Texas • *Southern States:* C. S. Burgess, 70 Houston St. N.E., Atlanta 3, Ga. • *Western States:* William Schaler.

The Finest Quality

At The Lowest Price

IN METAL TOYS

Tonka Toys
By
MOUND METALCRAFT, INC.
Mound, Minnesota

SCALE MODELS OF MODERN INDUSTRIAL EQUIPMENT

Sales Organization

New England
R. L. Livingston
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New York
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200 5th Ave. Bldg.
Room 563

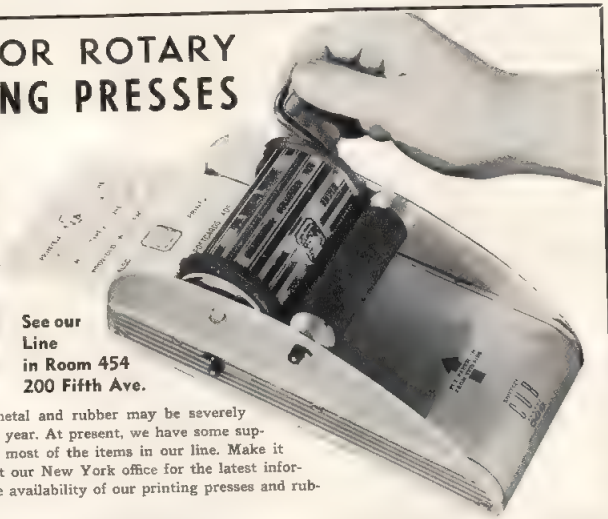
Midwest
The Factory
at
Mound, Minn.

South
James Melton
Santa Fe Bldg
Unit Z, Dallas, Tex.

West
Murry F. Felds
4316 Telegraph Ave.
Oakland, Calif.

SUPERIOR ROTARY PRINTING PRESSES

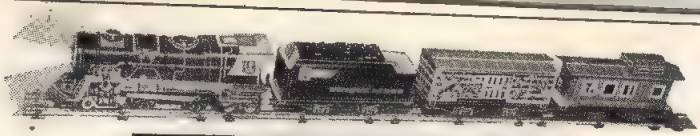
And Rubber Stamp Printing Sets



See our Line in Room 454 200 Fifth Ave.

Toys made of metal and rubber may be severely limited later this year. At present, we have some supplies on hand of most of the items in our line. Make it a "Must" to visit our New York office for the latest information about the availability of our printing presses and rubber stamp sets.

SUPERIOR MARKING EQUIPMENT CO. • 200 FIFTH AVE., NEW YORK



UNIQUE MECHANICAL AND ELECTRICAL TRAIN SETS

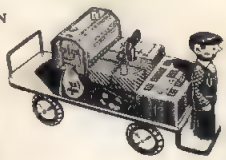
"UNIQUE"
the name every Kid KNOWS

UNIQUE ART MFG. CO., Inc.

Factory and Main Office
200 Waverly Avenue
Newark 5, New Jersey

Permanent Display and Sales
200 Fifth Avenue
New York 10, N. Y.

FINNEGAN



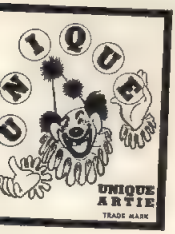
HOWDY DOODY

KIDDY CYCLIST

KIDDY-GO-ROUND

BOMBO THE MONK

GERTIE
THE GALLOPING
GOOSE



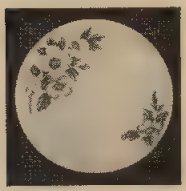
ANOTHER HIT SHOW!
at the
MARTOY
MENAGERIE
Presented by
MITTEN TOY MFG CO. INC.
649 BROADWAY, NEW YORK 12, N.Y.
Featuring
ANIMALS & DOLLS
LOVABLE AND GAY
STYLED IN
Rucoam
PLASTIC
at the TOY FAIR
• Room 611 • Hotel McAlpin • Mar. 5-16
Western Representative
JALOF & LEWIS SALES
1110 WILSHIRE BLVD.,
LOS ANGELES, CALIF.
Chicago Representative
TOM HARTIGAN
1447 MERCHANDISE MART,
CHICAGO, ILL.
Southern Representative
LEWIS S. BAIN
1015 N.E. THIRD ST.
FT. LAUDERDALE, FLA.
Eastern Representative
LEVY & ROSENTHAL
200 FIFTH AVENUE,
NEW YORK, N. Y.

Dinnerware

American Semi-Porcelain

Universal Potteries

Exotic Pattern



Modern flat shape, no rim. Light ivory body with a two spray modern pink floral design. Made by Universal Potteries

Stock No.	Pieces In Set	Service For	lb Set	Cat. List SET
44C 1101	98	12	75	$42 75
44C 1103	53	8	34	24 40
44C 1105	32	6	21	13 15
44C 1106	20	4	12	7 45

One set in a carton.

Open Stock—Sold in Carton Quantities Only

Stock No	Item	Size	Doz. In Ctn	lb Doz	Cat. List EACH
4C 1111	Bowls	36's	1	10	▲$ 65
4C 1112	Bowls, Salad	Ind	2	9	▲ 75
4C 1114	Fruits	4"	2	5	▲ 25
4C 1115	Gravyboat	Reg	½	12	▲ 1 20
4C 1117	Nappies	7"	½	22	▲ 1 00
4C 1118	Nappies, Cov'd	7"	½	44	▲ 2 50
4C 1121	Pickle Dish		½	12	▲ 95
4C 1122	Plates	4"	2	6	▲ 35
4C 1123	Plates	5"	2	8	▲ 40
4C 1125	Plates	7"	2	13	▲ 60
4C 1126	Plates	8"	2	15	▲ 70

Stock No	Item	Size	Doz Fr In Ctn.	lb Doz	PAIR
4C 1136	Shakers, S & P		½	6	▲ 1 50

Stock No	Item	Size	Doz in Ctn.	lb Doz	EACH
4C 1138	Soups, Lug		2	8½	▲ 50
4C 1140	Sugars, Covered		½	14	▲ 1 75
4C 1141	Creamers		½	8	▲ 90
4C 1143	Teacups & Saucers		2	10	▲ 70
4C 1144	Teacups		2	12	▲ 50
4C 1147	Tray, Utility (Rd. Platter or Chop)	8"	½	26	▲ 95
4C 1148	Tray, Utility (Rd. Platter or Chop)	10"	½	36	▲ 1 55

Cup of Gold Pattern

Modern flat shape, no rim. Light ivory body with large cup of gold flowers in yellow and green. Made by Universal Potteries

Stock No.	Pieces In Set	Service For	lb Set	Cat. List SET
44C 1253	53	8	34	$24 40
44C 1255	32	6	21	13 15
44C 1256	20	4	12	7 45

One set in a carton

Open Stock—Sold in Carton Quantities Only

Stock No.	Item	Size	Doz. In Ctn	lb Doz.	Cat. List EACH
4C 1261	Bowls	36's	1	10	▲$ 65
4C 1262	Bowls, Salad	Ind.	2	9	▲ 75
4C 1264	Fruits	4"	2	5	▲ 25
4C 1265	Gravyboat	Reg	½	12	▲ 1 20
4C 1267	Nappies	7"	½	22	▲ 1 00
4C 1268	Nappies, Cov'd.	7"	½	44	▲ 2 50
4C 1271	Pickle Dish		½	12	▲ 95
4C 1272	Plates	4"	2	6	▲ 35
4C 1273	Plates	5"	2	8	▲ 40
4C 1275	Plates	7"	2	13	▲ 60
4C 1276	Plates	8"	2	15	▲ 70

Stock No.	Item	Size	Doz. Fr. In Ctn.	lb Doz.	PAIR
4C 1286	Shakers, S & P		½	6	▲ 1 50

Stock No.	Item	Size	Doz in Ctn.	lb Doz.	EACH
4C 1288	Soups, Lug		2	8	▲ 50
4C 1290	Sugar, Covered		½	14	▲ 1 75
4C 1291	Creamer		½	8	▲ 90
4C 1293	Teacups & Saucers		2	10	▲ 70
4C 1294	Teacups		2	12	▲ 50
4C 1297	Tray, Utility (Rd. Platter or Chop)	8"	½	26	▲ 95
4C 1298	Tray, Utility (Rd. Platter or Chop)	10"	½	36	▲ 1 55

▲ We do not break cartons.

But for Him...

But for him . . . words would be sterile, meaningless things . . . words like freedom, liberty, justice, equality . . . words that make pacts, proclamations, constitutions, charters . . . hopes for a better, more peaceful future.

Back of each man with a gun there are at least 25 men in uniform. They are men who are doers in their own right . . . specialists in communications, transportation, engineering, food, housing, motors, maintenance, repairs, electronics and many others.

Today's Army is a multiple combination of teams . . . in which all individuals merge their identity for a cause. Yet, as on any team in civilian life, individuals emerge from the group to carry the team and the cause.

Your Army is constantly seeking individuals of courage and initiative. Last year more than 200,000 men volunteered for the role of HIM. If you believe you can qualify, stop in at your nearest U. S. Army and U. S. Air Force Recruiting Station and see how much your Army offers.

U. S. ARMY

RECRUITING
U.S. ARMY
U.S. AIR FORCE

Above, new Ray-O-Vac "Billioneer" 2-cell flashlight . . . now at your favorite dealer

They're sealed in steel

to stay fresh and usable!

Here's the battery that won't swell or stick in your flashlight . . . that will stay fresh and usable longer . . that doesn't have to be "dated." Only genuine Ray-O-Vacs are sealed in steel . . . top, bottom, and all around. You get . .

1. A steel top.
2. Powerful battery.
3. Multi-ply insulation.
4. Steel jacket.
5. Steel bottom

Each battery carries this guarantee: "If your flashlight is damaged by corrosion, leakage or swelling of this battery send it to us with the batteries and we will give you FREE a new, comparable flashlight with batteries

Over a Billion Sold

© 1950 BY RAY-O-VAC COMPANY MADISON, WIS
RAY-O-VAC CANADA LTD WINNIPEG MAN

Buy Spares . . . they stay fresh

A little remodeling let the Gahlers of Ohio turn to chopped hay and a dryer. Now "mowing hack" is a snap. A blower does all the work.

43% More Barn

. . . at little cost

If you have an old-fashioned driveway barn—a space waster if there ever was one—maybe you're due for a remodeling job.

That's what Edward Gahler, Ottawa County, Ohio, did with his old barn, and he wound up with 43% more hay storage space.

As long as Gahler and his sons put up hay the usual way, they had wasted driveway space right up to the roof, just as many another farmer does.

But in 1949 the Gahlers decided to turn to chopped hay and use a dryer. They found they could blow that hay clear over into the middle of the barn. They put a floor over the 15-ft.-wide driveway, and so got that 43% boost in space.

This solved two other problems. It allowed a permanent location for the hay dryer fan, and provided a place for storing the farm stock-hauling truck in the driveway.

After the new mow floor had been laid, they were able to connect the two main air ducts of the hay dryer. This saved moving the heavy fan from one end of the barn to the other.

To fill the new center they devised a flexible coupling for one end of the blower pipe. One of the boys just sits up in the window and operates a system of ropes and pulleys (see photo).

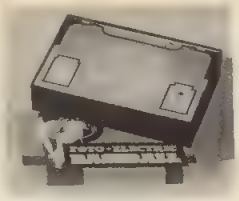
Why couldn't more farmers, with this type of barn, pick up this extra space for fairly little money?

—*R. E. Johnson*

Cadaco-Ellis Special Edition
ALL STAR BASEBALL

For fans of all ages. For 2 players. The scientific game, based on actual batting records results are the same as real baseball. All-star American and National League players make up the teams. Each player bats exactly as in a regular game. The special discs do the trick. Handsomely boxed, 12 1/4 x 19 x 1 1/2 inches.

LIST 2.50



Cadaco-Ellis
FOTO-ELECTRIC BASEBALL

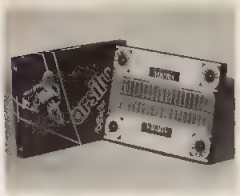
An expanded version of the popular All Star Baseball. Contains 60 players; 40 modern stars, 20 all-time baseball greats. Set up Bleachers and Score Board authentically duplicates a real baseball park. For all ages, for 2 players. Diamond, player discs, batting records, etc., in a display box 21 3/4 x 19 x 1 1/2 inches.

LIST 7.00

Cadaco-Ellis
FOTO-ELECTRIC FOOTBALL

For all ages, for 2 players. Operates on either AC or DC current. The patented Play-viewer lets you actually see the ball carrier dodge his way down the field. Based on actual football records and strictly according to rules. Over 1000 possible offense and defense play combinations. Includes gridiron, scoreboard, play sheets, dice and shaker, light and cord. Box is 20 x 12 x 5 inches.

LIST 7.00



Cadaco-Ellis
VARSITY FOOTBALL

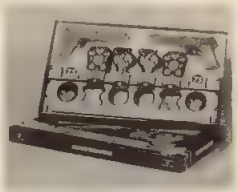
For ages 9 and up, for 2 players. A great favorite with boys. Each player is quarterback of his team, every play has a chance to score. Consists of gridiron, dice chart of plays. Attractive display box 17 1/2 x 12 3/4 x 1 1/2.

LIST 1.75

Cadaco-Ellis
BAS-KET

For all ages, 1 to 6 players. Real basketball in miniature, ball is actually shot from any position on court by mechanically controlled levers. Tested steel mechanism, sturdy construction. Box 20 x 12 x 3 3/4 in.

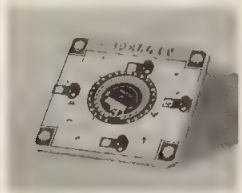
LIST 4.00



Cadaco-Ellis
SHARPSHOOTER

For all ages, for 2 or more players. Fast shooting fun featuring harmless rubber band ammunition. Has two pistols with unique trophy target range. Targets reverse when hit to show score. Pistols are unbreakable molded material. Target has two support standards. Box 19 x 12 1/4 x 1 1/2.

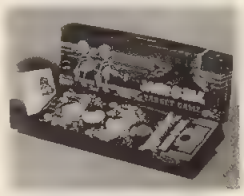
LIST 3.50



Cadaco-Ellis
SPELL-IT

A top seller for children. It's fun and it's educational. Dial letters to spell anything on board. Pictures of objects appear in Magic Doors when spelled correctly.

LIST 1.75



Cadaco-Ellis
JACK AND JILL

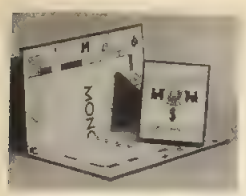
A safe target game for children in the 4 to 11 year group. For one or more players. Has a set-up inclined target and celluloid ball. Mechanical lever tosses ball into numbered holes. Durably constructed, high in play value. Gay display box 17 x 6 x 2 inches

LIST 1.25

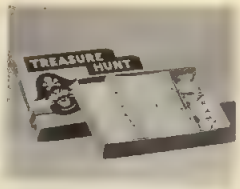
Cadaco-Ellis
TOP-O-GRAPHY

A race with time on a peg map of the United States. For ages 8 and up, for 2 to 8 players. Spin alphabet disc to start. While sand runs through timer, pegs are placed in as many places beginning with the letter as time allows.

LIST 2.50



No. 65 MONOPOLY – LIST 3.00 ea.



No. 150 TREASURE HUNT – LIST 1.25

No. 194 DOBBIN DERBY – LIST 1.00 ea.

No. 4002 BINGO – LIST 1.00 ea.

No. 390 SORRY – LIST 2.50

No. 1155 LONE RANGER – LIST 2.00 ea.

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No. 114 TRIPOLY – LIST 1.00

No. D FLINCH – LIST 1.50 ea.

No. 461 RODEO – LIST 2.50 ea.

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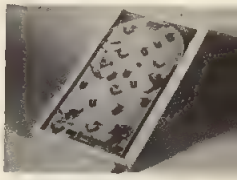
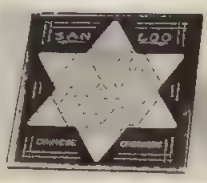


No. 451 POOSH-M-UP – LIST 3.75

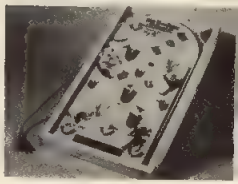
No. 4928 CHECKERS & BACKAMN–

LIST 1.20



No. 120 CHINESE CHECKERS –

LIST 2.19 ea.



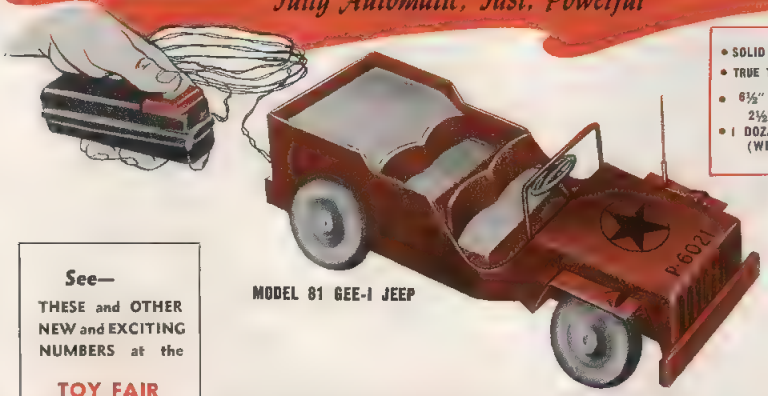
No. 452 ELECTRIC POOSH-M-UP –

LIST 5.75 ea.

ELECTRIC

REMOTE CONTROL

Fully Automatic, Fast, Powerful



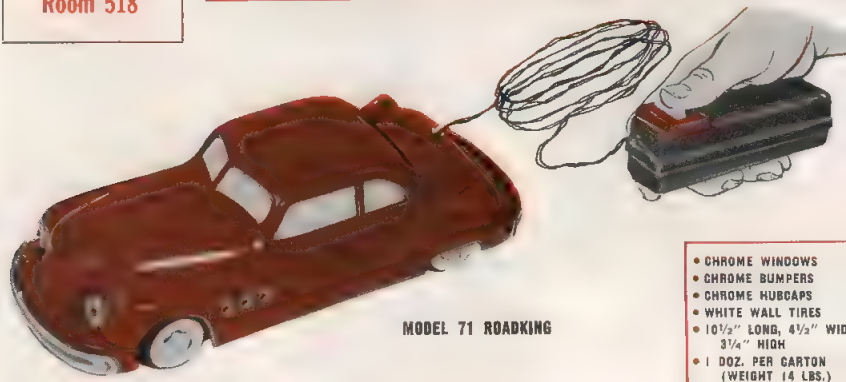
- SOLID RUBBER WHEEL
- TRUE TO LIFE JEEP
- 6⅛" LONG, 2½" W
  2½" HIGH
- 1 DOZ. PER CARTON
  (WEIGHT 14 LBS.)

MODEL 81 GEE-I JEEP

See—
THESE and OTHER NEW and EXCITING NUMBERS at the

TOY FAIR
HOTEL McALPIN
Room 518

PUSH BUTTON CONTROL • MOTOR TORQUE STEERING • FORWARD • REVERSE • TO THE LEFT • TO THE RIGHT
INDIVIDUALLY BOXED FOR DISPLAY • UNCONDITIONALLY GUARANTEED • INDOORS ON RUGS • OUTDOORS ON PAVE



MODEL 71 ROADKING

- CHROME WINDOWS
- CHROME BUMPERS
- CHROME HUBCAPS
- WHITE WALL TIRES
- 10½" LONG, 4½" WID
  3¼" HIGH
- 1 DOZ. PER CARTON
  (WEIGHT 14 LBS.)

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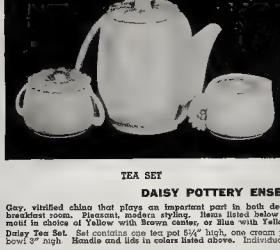
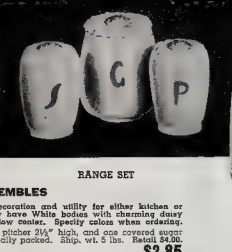


TEA SET



RANGE SET

COOKIE JAR

DAISY POTTERY ENSEMBLES

Gay, vitrified china that plays an important part in both decoration and utility for either kitchen or breakfast room. Pleasant, modern styling. Items listed below have White bodies with charming daisy motif in choice of Yellow with Brown center, or Blue with Yellow center. Specify colors when ordering.

Daisy Tea Set. Set contains one tea pot 5¼" high, one cream pitcher 2½" high, and one covered sugar bowl 3" high. Handle and lids in colors listed above. Individually packed. Ship. wt. 5 lbs. **Retail $4.00.**

613B43—Per Dozen Sets $31.80.....PER SET **$2.85**

Daisy Range Set. Contains one dripping for 4½" high, and one pair of salt and pepper shakers 4" high. Colors of lids listed above. Individually packed. Ship. wt. 3 lbs. **Retail $2.75.**

613B42—Per Dozen Sets $25.20.....PER SET **$2.25**

Daisy Cookie Jar. 8" high. Colors on lid listed above with matching double-O in colorful lettering. Ship. wt. 6 lbs. **Retail $2.25.**

613B41—Per Dozen Sets $25.29.....EACH **$2.25**

VASES AND PLANTERS

An assortment of 6 quick selling vases and planters. Styled by highly skilled artists, made from selected clays, beautifully colored. **Size of vases ranges from 4½" to 9" in height—planter is 3½" high. Assorted colors:** Blue, Pink, Green, Yellow, Ivory, and Chartreuse. Packed 6 pieces to carton. Ship. wt. 20 lbs. **Retail $8.00.**

623B189—No Less Sold.....PER ASSORTMENT **$5.95**

GIRL COOKIE JAR

The girl's head on this cookie jar is slightly raised with color of hair in Yellow, ribbons and bow in a contrasting Light Blue. The lettering of "COOKY" is in Brown. The knob on cover is also Blue. **Height 9½".** Ind. boxed. Shipping wt. 6 lbs.

613B46.....EACH **$2.55**

PER DOZEN $29.56

PINEAPPLE COOKIE JAR

Artistically stylized reproduction of the pineapple. The rich coloring and true indented lines are outstanding in this piece of pottery-ware. **Overall height 10½".** Ind. boxed. Shipping weight 5 lbs.

613B45.....EACH **$1.95**

PER DOZEN $21.84

4-PC. JAM SET

Dainty, decorative pottery jam set topped with gay fruit motif covers hinting of the delicious contents. The jars are a delicate light Blue, the lids are Ivory. Each lid is accented with a colorful plum, peach or strawberry. The tray is Ivory banded in Blue. **Jars are 3½" high, tray is 8" in diameter.** Each set is ind. packed. Ship. wt 4 lbs. **Retail $3.75.**

613B44—Per Dozen Sets

$33.60 ....PER SET **$2.95**

THREE-PIECE CONSOLE SET

Magnificent console set of sleek, gleaming, highly glazed pottery to grace buffet, table or console radio. **They come in impressive, lustrous Black, Light Blue, or Chartreuse.** The bowl is 14½" long, the candle holders 4½" high. Packed 6 sets to a carton. **Specify color.** Ship. wt. 50 lbs. **Retail $4.75.**

624B1—Per Set $2.85 LOTS OF 6 SETS OR MORE, EACH **$2.80**

POTTERY ON THIS PAGE . . . is vitrified china manufactured in a fine, modern ceramic plant. They are made of selected clays and fired under intense heat with quality and coloring controlled by precision appliances. And they are styled by highly skilled artists . . . all ware shown here is worth your attention.

SALT AND PEPPER SHAKERS

Charming character salt and pepper shakers imported from Occupied Japan. Made of fine quality semi-porcelain, beautifully finished, and gayly colored. **Available in 4 different patterns:** Dutch boy and girl, a Chinese couple, turbaned couple, and pair illustrated. Average height about 3¼". **Packed 1 dozen assorted (3 pairs of each pattern) in carton. No less sold.** Ship. wt. 4 lbs.

613B60.....PER DOZEN **$4.80**

JOBBERS—DEALERS—USERS

everyone profits with **VLCHEK TOOLS**

Best line to sell—best to use—because they're designed right, made right, and priced right—true value in every item.

Discriminating mechanics have been selecting Vlchek Tools for more than 50 years—Everyone has profited.

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3001 EAST 87th STREET • CLEVELAND, OHIO

A COMPLETE LINE OF HIGH GRADE STANDARD TOOLS

George Friedland & "Mac" Luttinger

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The Formation of the
Selling Agency of

FRIEDLAND & LUTTINGER

Presenting THE NEW IN TOYS,
DOLLS and NOVELTIES

We welcome a visit to our new showroom
ROOM 356 • 200 FIFTH AVE. • NEW YORK 10

May we express our deep appreciation for the many courtesies extended to us in the past

"IT'S A NATURAL"
REG.
AMERICA'S
FINEST AND FASTEST SELLING LINE
Baby Dolls Rubber Skin Dolls
Plastic, Vinylite
and Composition Dolls
35 YEARS OF LEADERSHIP
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SHOWROOM
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For Christmas VOLUME at EASTER
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biggest selling bunny in creation
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SAGER AXES AND BULL DOG LOGGING TOOLS

Highest Quality for over a Half Century

Sager Mich. Double Bit

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Splitting Wedges

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1 lb. with 16" Handle
2½ lbs. with 28" Handle

Tie Pick or Hookaroon

Tongs

Peavies
All sizes—hickory or maple handles

Cant Hooks

Timber Carriers

Bull Dog Grabs
Made in 5 Sizes

Cold Shuts
3/16" to 1½"

Steel Wedges
All patterns and weights

Chain Hooks
¼" to 1" sizes

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WARREN AXE & TOOL CO., WARREN, PA.

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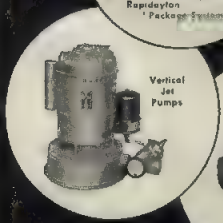
JET PUMPS

Rapidayton "Package System"

There is just one basic design in the entire RAPIDAYTON Jet Pump Line. So it is a very simple and easy matter to adapt each model for either shallow or deep well service. They *all* give good performance over a long service life. Fill out the coupon below and mail it TODAY.



Vertical Jet Pumps

Horizontal Jet Pumps

THE DAYTON PUMP & MFG. CO.,
Dept. HA, 500 Webster St., Dayton 1, Ohio.

Please send me complete details and prices on the new RAPIDAYTON Jet Pump Line.

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Waterman's

Waterman's offers the only complete line of both Standard point and Taperite model pens. Waterman's famous points are 14 kt. gold, and handcrafted by experts in 9 different writing styles.

THE STATELEIGH

Deluxe model with 1/10 14-kt. gold filled cap. Handsome plastic barrel in Jet, Red, Slate Blue or Gray.

	Retail	DEALER'S
No. 1357W—Taperite	$13.50*	$8.10
No. 1352W—Standard	$13.50*	$8.10

LADY GARLAND

Slim, trim ladies' model. Cap 1/10 14-kt. gold-filled with dainty clasp. Blue, Red, Jet or Gray.

	Retail	DEALER'S
No. 1367VW—Taperite	$13.50*	$8.10

NEW CORINTH

Handsome cap with fine-line engraving on 1/25 14-kt. gold overlay Plastic barrel in Jet, Maroon, Slate Blue and Gray.

	Retail	DEALER'S
No. 884W—Standard	$8.75*	$5.25
No. 885W—Taperite	$8.75*	$5.25

THE MEDALIST

New all-plastic model with wide 14-kt. gold-filled band. Blue, Red, Jet and Gray.

	Retail	DEALER'S
No. 880W—Standard	$8.75	$5.25

THE CRUSADER

Handsome gold toned metal cap with contrasting bands. Barrel in Beige, Blue, Jet, Red and Gray.

	Retail	DEALER'S
No. 516W—Standard	$5.00	$3.00
No. 517W—Taperite	$5.00	$3.00
No. 517VW—Ladies'	$5.00	$3.00

THE LEADER

A great new pen with Satinum metal cap. Barrels in Green, Jet, Red, Blue and Gray.

	Retail	DEALER'S
No. 376W—Standard	$3.75	$2.25

*Subject to Federal Luxury Tax

Waterman's New "Selfeed" Pencil

with Magic Matermatic Action . . . feeds exact amount of lead to eliminate breakage and lead 'wobble.' Loads by writing motion! Feeds 3 ft. of lead, continuously, on light thumb action

BALL POINTER

Slim, trim, smartly-designed. A dependable, fine-writing ball pen with high-lustre metal cap. Jet Blue, Tan, Red and Gray.

	Retail
B101W—Standard Size, with clip	$1.0
B101VW—Purse Size, without clip	$1.0

DEALER'S $.60

WATERMAN'S

MERCHANDISE WILL BE BILLED LESS 2% DISCOUNT

Waterman's . . . AMERICA'S FIRST Gift Pen Set

↑ NEW CORINTH SET

New model pen with 1/25 14 kt. gold overlay cap. Jet, Maroon, Slate Blue, Gray. With matching 'Selfeed' pencil in luxurious gift box

TX884W—Standard
TX885W—Taperite
Retail $13.75*
DEALER'S $8.25

A Waterman's is a gift that's always appreciated. For smooth, clear writing... for design, styling and performance—the *first* practical fountain pen still is *first* in 1950.

← THE STATELEIGH SET

Deluxe model set with 1/10 14 kt. gold-filled cap. Jet, Maroon, Slate Blue or Gray. New "Selfeed' pencil. Luxurious gift box.

TX1352W—Standard
TX1357W—Taperite
Retail $19.25*
DEALER'S $11.55

↑ THE CRUSADER SET

Popular, gold-toned metal cap with contrasting bands. Beige, Blue, Jet, Red, and Gray. Matching Selfeed pencil in attractive gift box.

TX516W—Standard
TX517W—Taperite
TX517VW—Ladies'
Retail $8.75
DEALER'S $5.25

↑ THE LEADER SET

Satinum metal cap pen and pencil set in gift box. Green, Jet, Red, Blue and Gray. Pencil has "Selfeed' action.

TX376W—Standard
Retail $5.95
DEALER'S $3.57

THE CRUSADER TRIO →

All you'll need for all the writing you'll ever do! Pen, Pencil and Ball Pointer combination set in handsome gift box Beige, Blue, Jet, Red and Gray.

BTX516W—Standard
BTX517W—Taperite
Retail $10.75
DEALER'S $6.45

*Subject to Federal Luxury Tax

MERCHANDISE WILL BE BILLED LESS 2% DISCOUNT

WATER MASTER BOATS

SAFE V-STRATA Bottom, 12 and 14 Foot LIGHT-WEIGHT WOOD BOATS

Built Strong and Suitable for Outboard Motor and Rowing

BOATS NOT INCLUDED IN OUR PREPAID FREIGHT OFFER

THE WATER SPORTSMEN'S BEST BOAT BUY!

Advertised Nationally in Popular Sports MAGAZINES

DECK MODEL - SUPREME
11M51 - 12-ft. — 11M32 - 14-ft.

5 ply full ½ inch thick V bottom—Safe and strong. "Splash Deflectors" full length eliminate spray. Tumbled in curved transom.

Wide beam, ample depth for sea worthiness. Greater seating capacity—increased loads. High performance—low priced.

Light in weight. Lasting service. Wood screw assembled — aircraft type construction.

WATERTIGHT SEALED. All seams, battens, frames and structural members are permanently sealed watertight with new, plastic waterproofed urea-formaldehyde resin glue

Attractive 3-color combination of Revere marine bakelite waterproof finish. INTERIOR DECK Spar Varnish EXTERIOR—White topside with green below "Splash Deflectors" and green bottom

SUPREME WATER-MASTER WITH SPRAY DECK

MODEL 11M51—12-ft. **MODEL 11M32—14-ft**

An all around boat in the popular 12 and 14-ft. lengths Of proven design and remarkable performance. Staunch and speedy, easily maneuvered, with bottom strength provided. Spray deck 42½ inches long streamlines the bow and also provides dry storage. FULL LENGTH "SPLASH DEFLECTORS" and CURVED TUMBLED IN TRANSOM are essential designed features *excellent performance with small horsepower motors* as well as motors up to 12 H.P. Easily handled with oars and light enough to be used in transporting on top of car. **Complete with seats and oarlocks.**

MODEL 11M51—12-ft. SUPREME

Length overall 11 ft. 7½ in. Beam 51 in. Depth amidship 18¾ in TRANSOM width 44½ in. Height 16½ in. Cutout 15 in., 2 seats. Weight approximately 130 lbs. Retail 194.50 Packing carton retail 6.30
No. 11M51. Dealer's each 145.88
Lots of 3, each 140.27 **137.46**
Less 2% net .....
Add 5.75 for packing carton

MODEL 11M32—14-ft. SUPREME

Length overall 13 ft. 7½ in. Beam 52 in. Depth admidship 19¾ in. TRANSOM width 44½ in. Height 16½ in. Cutout 15 in., 3 seats. Weight approximately 159 lbs. Retail 225 75 Packing carton, retail 6.75
No. 11M32. Dealer's, each 169.32.
Lots of 3, each 162.81. **159.55**
Less 2% net .....
Add 6.15 for packing carton

SUPER WATER-MASTER OPEN STYLE

MODEL 11M61 — 12-ft. **MODEL 11M62 — 14 ft.**

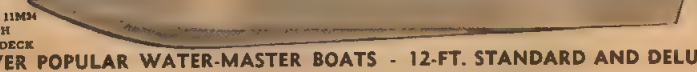
The ideal craft for the rough water fisherman, easily rowed yet fast under outboard power with the style and trim appearance that gives pride of ownership You can enjoy the comfort and safety provided by the V Bottom design, wide beam and greater seating capacity These models are the same as the Supreme except provided with Bow seat in place of Spray deck FULL LENGTH "SPLASH DEFLECTORS" and CURVED TUMBLED IN TRANSOM **Comes complete with seats and oarlocks.**

MODEL 11M61 — 12-ft. SUPER

Length overall 11 ft. 7½ in. Beam 51 in Depth amidship 18¾ in. TRANSOM width 44½ in Height 16½ in Cutout 15 in., 3 seats Weight approximately 125 lbs. Retail 182.50 Packing carton, retail 6.30
No. 11M61. Dealer's each 136.88
Lots of 3, each 131.62. **128.98**
Less 2% net .....
Add 5.75 for packing carton

MODEL 11M62 14-ft. SUPER

Length overall 13 ft 7½ in. Beam 52 in Depth amidship 19¾ in TRANSOM width 44½ in. Height 16½ in. Cut out 15 in. 4 seats Weight approximately 154 lbs. Retail 212.75 Packing carton, retail 6 75
No. 11M62. Dealer's each 159.56
Lots of 3, each 153.43. **150.36**
Less 2% net
Add 6.15 for packing carton



MODEL 11M34 WITH SPRAY DECK

WATER MASTER

EVER POPULAR WATER-MASTER BOATS - 12-FT. STANDARD AND DELUXE MODELS.

MODEL 11M34 DE LUXE - 12-FT. WITH SPRAY DECK

*** De Luxe Model WATER-MASTERS are the finest boats of their type ever offered—Built of quality materials by master craftsmen, incorporating proven design principles—they offer the user maximum safety, comfort, durability and ease of handling both in and out of the water. Ideal for rowing and for outboard motor use. Equipped with two-section custom-built plywood foredeck that protects the interior from speed-thrown spray Comes complete with seats and oarlocks.**

MODEL 11M33 STANDARD — 12-FT. OPEN

*** Standard models are prime favorites with fishermen, hunters and outdoormen. Incorporate every detail of the De Luxe Models, except have forward seat in place of spray deck. Furnished complete with seats and oarlocks. For use with outboard motors or oars.**

WATER-MASTER WITH SPRAY DECK

DIMENSIONS—Length, 11 ft 9 in., width (beam) 43 in., stern width 33 in., height 15 in., depth amidship 17 in. DECK, 36 in. long
WEIGHT—Approx. 90 lbs.
DECK—De Luxe model Custom-built streamlined design in two sections, of tough, long life ¼ in. special marine waterproof bonded plywood supported by frames
Retail 145.95
Packing carton, retail 5.10.
No. 11M34. Dealer's ea. 109.46. Lots of 3 ea 108.23. Less 2% net **103.15**
Add 4.65 for packing carton

WATERTIGHT SEALED All seams, battens, frames and structural members are permanently sealed watertight with new, plastic, waterproof urea-formaldehyde resin glue.
FINISH. Interior and Deck with two heavy coats Marine Spar Varnish. Exterior two coats, waterproof primer, finished with special Revere bakelite waterproof green on sides, stern and bottom

HULL

SIDES AND BOTTOM. Tough long life ¼ in 5-ply patented special Marine waterproof bonded plywood bottom with ¼ in. 3-ply sides permanently sealed tight
TRANSOM Curved tumbled out design Heavy duty for outboard motor use, of ½ in. 5-plywood reinforced by supporting members and motor block
SCREWS Over 1,000 heavy cadmium plated screws

MODEL 11M33— STANDARD 12-ft. WATER-MASTER OPEN STYLE

DIMENSIONS - Length 11 ft. 9 in.; width (beam), 43 in.; stern width, 29 in., height 15 in., depth amidship 17 in
WEIGHT — Approximately 87 lbs. Retail 135.95. Packing carton retail 5.10.
No. 11M33, Dealer's each 101.96. Lots of 3 ea. 98.05.
Less 2% net **96.09**
Add 4.65 for packing carton

- ROOMY
- PORTABLE
- NO NAILS
- ADAPTABLE
- SAFE

MODEL 11M33— STANDARD 12-ft. WATER-MASTER OPEN STYLE

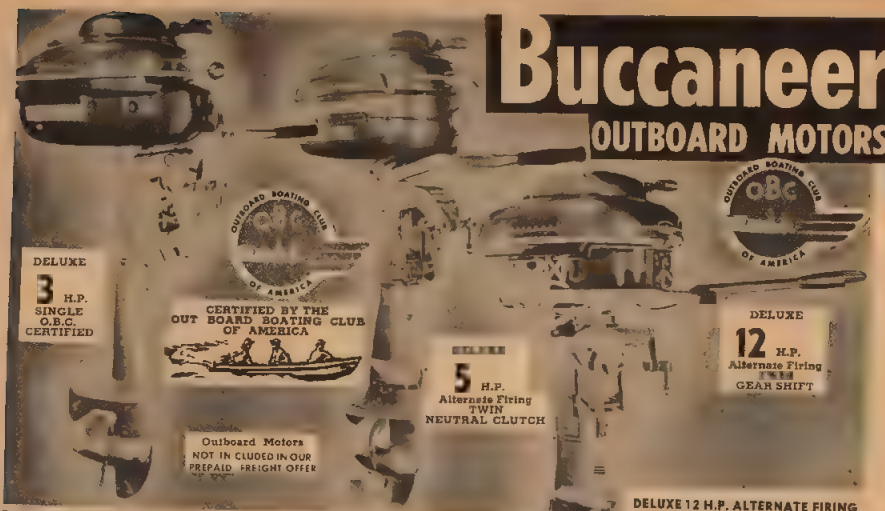
ORDER ITEMS ON THIS PAGE FROM

GENERAL-AMERICAN DISTRIBUTORS

42 W CERMAK ROAD CHICAGO 16, ILLINOIS

SEE PAGE 219 FOR ORDER BLANK

Buccaneer
OUTBOARD MOTORS



DELUXE 3 H.P. O.B.C. CERTIFIED With Automatic Rewind Starter

Last word in powerful, easy to carry, single cylinder motors. Weight 28 pounds. Steering 360 full reversing adjustable co-pilot, 1 cylinder. Tank capacity 0.5 gals., running time per tank, full speed 1½ hr. Speed 1½ to 10 M.P.H. Improved, easily manipulated gasoline shut-off valve handle. Polished aluminum, ball-type speed control lever. Synchronized unit spark and carburetor control Dial to match. Carburetor, improved needle valve packing prevents leaks, single jet, variable. Water pump positive displacement type Zerol bevel gears. New type magneto with waterproof plastic molded coil Breaker assembly accessible for adjustments. Vibration insulation Salt water protection; Alrok anodize or bonderite 170 Recommended transom height 15 inches Retail 107.00

No. 11MBMD33. Dealers, each 80.70 79.08
Less 2% net

STANDARD 3 H.P. SINGLE O.B.C. CERTIFIED Same as Deluxe 3 H.P. except has rope starter Retail 85.50

No. 11MBM33. Dealer's, each 72.59. 71.12
Less 2% net .....

DELUXE 5 H.P. ALTERNATE FIRING TWIN NEUTRAL CLUTCH

The motor preferred by most fishermen Weight 45 lbs. Automatic rewind starter Neutral clutch operated by hand lever, motor can run either in forward or neutral Shift at any speed. Steering: 360 full reversing adjustable co-pilot Flexi-clutch, monel drive pin replaces old style shear pin 2 cylinder motor Gas tank capacity 0.8 gals., full speed 1 hr. Speed 1½ to 12 M.P.H. Carburetor: single jet variable. Positive displacement type water pump 2 blade weedless propeller Speed control single lever-throttle synchronized with spark control. Vibration insulation, rubber mounted Salt water protection Retail 158.00

No. 11MBMD55. Dealer's, each 117.00. Less 2% net 114.66

STANDARD 5 H.P. ALTERNATE TWIN. Same as above without neutral clutch, using standard shear pin propeller protection Retail 142.50

No. 11MBM5. Dealer's, ea. 108.87. Less 2% net 104.73

DELUXE 12 H.P. ALTERNATE FIRING TWIN FORWARD-NEUTRAL-REVERSE GEAR SHIFT

Here is acceleration, speed and dependability all blended into the best horsepower per dollar value on the market Features the Neutral-Forward-Reverse gear shift, controlled by lever on side of motor. Automatic rewind type starter Adjustable co-pilot steering 86 lbs. 2 cylinder motor Gas tank capacity 1.5 gals., full speed ¾ hr. Speed 2 to 22 M.P.H. Carburetor, concentric type float. Positive displacement type water pump. Rubber clutch. Shear pin propellor protection Speed control twist grip steering handle. New type magneto with water proof plastic molded coil. Breaker assembly accessible for adjustment. Rubber mounted Salt water protection Retail 255.00

No. 11MBMD12. Dealer's, each 191.25. Less 2% net 187.42

STANDARD 12 H.P. TWIN O.B.C. Same as above, without gear shift feature. Retail 234.25.

No. 11MBM12. Dealer's, each 168.18. Less 2% net 164.81

1½ H.P. SINGLE O.B.C. CERTIFIED (Not Illustrated)

For small boats and trolling 21 pounds Rope type starter. Steering 360 full reversing adjustable co-pilot 1 cylinder 3 weedless propeller blades. Sheer pin propeller protection. Single lever-throttle synchronized with spark control Salt water protection. Retail 69.50.

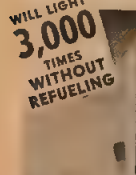
No. 11MBM1½. Dealer's, each 53.75. Less 2% net 52.67

INTRODUCING THE NEW! AMAZING SPARK-LITE CIGARETTE LIGHTER

NO FLUID . . . NO WICK By KNAPP-MONARK

USES CLEAN . . . DRY . . . ODORLESS ISO-BUTANE

Spark Lite



GAS FUEL DELUXE MODEL

A flick of the switch produces an instant, clean flame. The easiest operating lighter ever made anyone can change cartridges, as it is easier than filling an ordinary lighter Finished in alligator leather with gold plated top and operating lever Packed in a gift box complete with 2 refill cartridges, five flints and a handy cleaning brush. Retail 22.50

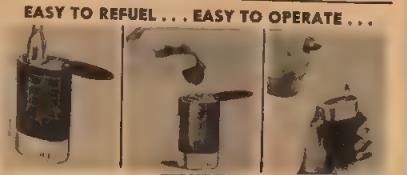
No. 85-SL185. Dealers each 14.62 lots of 3 each, 13.50 Less 2% net 13.23

Same as above But finished in chrome, with brown enamel base. Complete with flints and one refill cartridge Retail 17.50

No. 85-SL175 Dealers each 11.37 lots of 3 each, 10.50 Less 2% net.... 10.29

Refill kit, containing 3 cartridges, 5 flints and cleaning brush Retail 1.00

No. 85-SL120 Dealers per kit .65 lots of 3 kits, per kit .60 Less 2% net .59



NO FLUID . . . NO WICK

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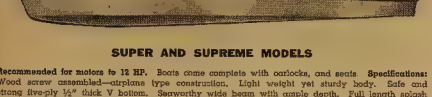
GENERAL-AMERICAN DISTRIBUTORS

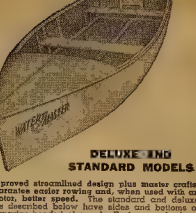
42 W. CERMAK ROAD, CHICAGO 16, ILLINOIS

SEE PAGE 210

"WATER MASTER" BOATS

The Best in All-Wood Boats





DELUXE AND STANDARD MODELS

SUPER AND SUPREME MODELS

Recommended for motors to 12 HP. Boats come complete with oarlocks, and seats. **Specifications:** Wood screw assembled—airplane type construction. Light weight yet sturdy body. Safe and strong five-ply ½" thick V bottom. Seaworthy wide beam with ample depth. Full length splash deflector to eliminate spray. Tumblead in curved transom. Greater seating capacity to carry increased loads. Attractive and durable 3-color bakelite finish. White topside, Green below splash deflectors. **Supreme models listed below have a 42½" spray deck. The super models have a forseat instead of a deck.** Retail prices include packing carton charges.

NO.	TYPE	SIZE	BEAM	DEPTH AMID-SHIPS	SEATS	WT.	RETAIL	PRICE	PACKING CTN. EXTRA
753R71	Open	12 ft. Super	51"	19¼"	3	125	$158.80	$136.85	$5.75
753R72	Deck	12 ft. Supreme	51"	19¼"	2	130	260.80	145.85	5.75
753R73	Open	14 ft. Super	52"	19½"	4	154	219.50	159.55	6.15
753R74	Deck	14 ft. Supreme	52"	19½"	3	159	232.50	169.90	6.15

F.O.B. Factory, Chicago. Delivery 2 to 4 weeks. No C.O.D. orders accepted.

Tested and proved streamlined design plus master craftsmanship guarantees easier rowing and, when used with an outboard motor, better speed. The standard and deluxe 12-ft. models described below have sides and bottoms of ¼" special marine bonded plywood. Each prow, keelson, keel, chine, and gunwale are made of one piece solid clear pine. Revere bakelite waterproof Green finish. The over 1,000 screws used in making this boat assure the extra strength wanted by boatmen.

Deluxe 12-Ft. with Spray Deck. Equipped with two section custom built plywood foredeck that protects the interior from spend-thrown spray. Two full width seats. Beam 49", stern width 39", depth amidship including bottom 17", deck 36" long. Ships wt. approx. 90 lbs. Complete with oarlocks. **Retail $156.85.**

753R70.....EACH **$109.45**

PLUS CTN. CHARGE $4.85

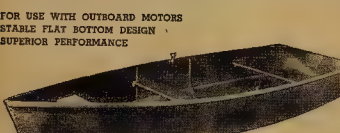
Standard 12-Ft. Open Model. All the specifications of deluxe model but with forward seat instead of spray deck. Ship. wt. approx. 87 lbs. Complete with seats and oarlocks. **Retail $140.85.**

753R69.....EACH **$101.95**

PLUS CTN. CHARGE $4.85

Marine Craft Boats For Fishing—Hunting—Livery

FOR USE WITH OUTBOARD MOTORS
STABLE FLAT BOTTOM DESIGN
SUPERIOR PERFORMANCE



SAFE—COMFORTABLE
EASY TO HANDLE
IDEAL FOR ROWING

All Prices F.O.B. Factory Chicago

FACTORY ASSEMBLED BOATS—VARNISH FINISHED

Marine Craft boats are universally known for outstanding performance and service. Lightweight, strong and durable, giving many years of enjoyment. All parts are permanently sanded and watertight. They are seaworthy and stable with the capacity of much larger boats, yet are easier to row. Phenolic resin bonding and screw construction insures trouble-free use. Streamline design and attractive Natural Varnish finish. Flat bottom design presents a safe boat for recreation or sports. Ideal for use with motor up to 5 horsepower.

14 ft. Utility Craft with 5-ply bottom ½" thick. A most versatile craft especially suitable for shallow waters. Desirable to sportsmen for their light weight and comfortable boating with maximum roominess. **Dimensions:** Length 13'9", beam 51½", depth 18", transom width 44". Weight 120 lbs.

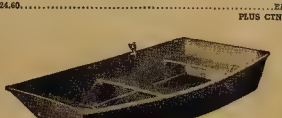
753R77—Retail $168.75.....EACH **$121.85**

PLUS CTN. CHARGE $6.15

12 ft. Skiff Craft. This popular 12' length meets the demands of sportsmen who require a smaller boat, weighing less. **Dimensions:** Length 11'9", beam 42½", depth 15", transom width 38½". Weight 90 lbs.

753R76—Retail $124.60.....EACH **$89.60**

PLUS CTN. CHARGE $4.85



8 ft. Prom-Craft. Exceptional and practical design useful under all conditions. Rows easily and handles well while under outboard power. Safely seats 3 persons. **Dimensions:** Length 7'11", beam 48", depth 14". Weight 30 lbs.

753R75—Retail $98.50.....EACH **$70.88**

PLUS CTN. CHARGE $3.75

BOAT KITS—PRE-CUT TO SHAPE

14 ft. Utility Craft Kit. Dimensions: Length 13'9", beam 51½", depth 16", transom width 44".

Specifications:

Gunwale, Chines, Keel, Seats, and Stem are clear Pine.

½" bottom of 5-ply Fir waterproof Plywood.

¼" sides of 3-ply Fir waterproof Plywood.

¾" transom of 7-ply Fir waterproof Plywood.

Urea Formaldehyde type Resin Glue, waterproof and fungi proof.

Assorted No. 7 Screws of Zinc coated metal.

Revere Spar Varnish.

Oarlocks and miscellaneous parts.

Weight 130 lbs.

753R80—Retail $111.50.....EACH **$83.60**

12 ft. Skiffcraft Kit. Dimensions: Length 11'9", beam 42½", depth 15", transom width 38½". Weight 90 lbs.

Specifications as above.

753R79—Retail $98.50.....EACH **$73.85**

8 ft. Promcraft Kit. Dimensions: Length 7'11", beam 48", depth 14". Weight 30 lbs.

Specifications as above.

753R78—Retail $64.50.....EACH **$48.35**

DELUXE CAMP STOVES (TWO BURNER ILLUSTRATED)

Improved steel generator with steel cleaning needle. Burner assembly is of cast iron steel with replaceable steel burner rings. Recommended to burn white untreated gasoline, but will burn colored gasoline in emergencies. Cooking surface 9¾x20". Folded size 20½x 7¼x4¾". Tank cap 2¾ pints. Ship. wt. 18 lbs. F.O.B. Factory, Wisconsin.

753RR64.....EACH **$10.95**

Instant lighting camp stove finished in deep Green enamel with Brown, rust-resisting fuel tank. Has folding legs, windshield, new grate of heavy steel wire, removable filler plug, and automatic check built-in pump.

THREE BURNER STOVE

As above: Cooking surface 9¾x26". Folded size 26¾x 11½x6¼". Tank capacity 3¾ pints. Ship. wt. 25 lbs. F.O.B. Factory, Wisconsin

753RR65.....EACH **$14.55**

DELTA BUDDY LANTERN

Big lantern performance at little lantern cost. An unbeatable combination of beauty, utility, and ruggedness. Made of die cast metal, ultra modern new design Antiqulene hood. Stainless steel handle. Operates on 2 standard flashlite batteries. Lumenous slide switch. Red enamel finish. Packed 12 in a carton. Ship. wt. cln. 10 lbs.

726R67—Per doz. $12.60 .....EACH **$1.15**

Regular Size 102 Flashlight Battery. For all regular size flashlights. Long shelf life—18 months. Size 2¼x4¼". Pkd. 24 to counter display box. 2 display boxes (48) in shipping ctn. Ship wt. 11 lbs. Retail each 10c.

726R49.....PER DOZ. **78c**

Copper Flashlite. Popular 2-cell Flat-Focus light of 22E copper. Size 7 5/16 x 1⅞". Retail $1.00.

726R63—Less batteries.....EACH **72c**

Deluxe 2-Cell. Brass barrel, heavily chromed body. Translucent ruby lens ring. 3-position switch. Size. 7 1/16 x 2½". Retail $1.45.

726R61—Less batteries.....EACH **96c**

BOND LANTERN BATTERY

Bond 6-volt batteries. For Focal-Ray and Hi-Lo lanterns on this page. Tested for freshness. 60 to 80 hours of light. Packed 10 to carton. Ship wt 15 lbs.

726R5.....EACH **48c**

2-Cell Searchlite. Chromed flashlite case with chrome plated brass fitting. 3-position Safety Lock switch. 9 1/16" long, head diameter 2½". Ship. wt. 1 lb. Retail $2.45.

726R64—Less batteries.....EACH **$1.62**

ALL PRICES WHOLESALE NET, LESS 2% DISCOUNT FOR CASH

NEW!

DELTA POWER-KING LANTERN

A quarter of a mile beam of light. Unsurpassed for sportsmen, farmers, mechanics, etc. Uses 2—6 volt lantern batteries. Mottled two-tone gray finish with chrome bezel. 4½" silver plated reflector. Red plastic handle for added beauty. Slot on back of handle for hanging on nail or screw. Automotive type slide switch on head glows in the dark. Unbreakable lens. Spare bulb comes with lantern. Overall height 8", width 4½", length 9½". Ship. wt. 3 lbs. Uses standard 6 volt lantern batteries shown on this page. Less Batteries. Retail $5.35.

726R72.....EACH **$3.65**

FOCAL-RAY LANTERN

A popular item for sportsmen and a very practical light for emergency use. 200 ft. beam. Very economical. Uses one No. 123 lantern battery. Gives from 60 to 80 hours of light. All metal construction. Focuses to spot or flood. 360° pivot. ¾" plastic handles. Sturdy lens. 12 in ctn. Ship. wt. 26 lbs. Less batteries.

Retail $2.85.

726R10.....EACH **$2.10**

HI-LO PIVOTLITE LANTERN

2 Reflectors—2 Switches. The only lantern of its type where either one or both bulbs may be lit at the same time. High power front spotlite. Floodlite on top for wide beam. Exclusive pivot base allows the beam to spot up or down. Stays put in any position. Swivel handle. Body is finished in Gray Trimmings bright-plated. Weatherproof, sliding type switches. Clear, plastic unbreakable lenses. Easy grip side handle. Height of lantern, not counting pivot ball handle, 9¾". Uses standard 6-volt lantern battery which gives from 60 to 80 hours of service. Less battery. Ship. wt. 3 lbs.

726R69.....EACH **$2.65**

Sport Figure BANTAM POCKET FLASHLIGHT

America's fastest selling, most distinctive flashlight. Now, improved aristocrat of pocket lights "goes to town" with new low price. Looks like a slim, slick cigarette lighter. Only flip it and, presto, you have a super powered beam of light. Solid metal case. High temperature baked enamel finish. Offered in an assortment of 3 striking colors: Blue, Green, and Maroon. Two-piece plastic top section. 3" clip. Fits in lady's purse or man's pocket. Comes equipped with 2 standard pen-lite batteries. Packed 1 doz. assorted with display panel. No less sold. Ship. wt. per gross 22 lbs. Retails 79c each with batteries.

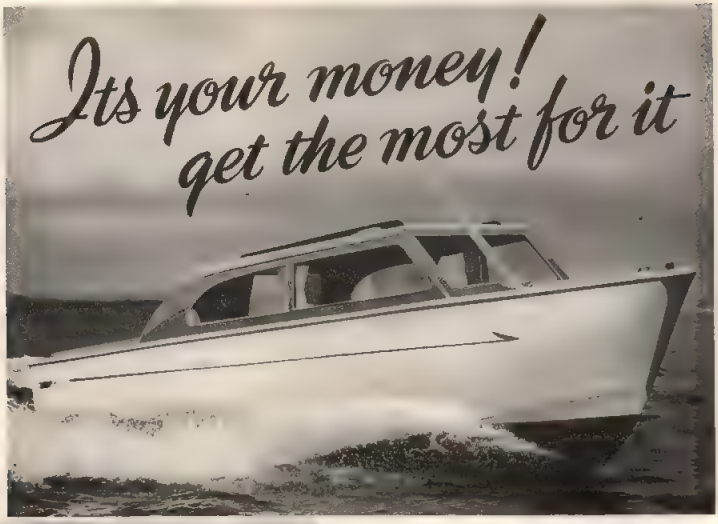
726R86.....PER DOZEN **$5.76**

Magnalite

The ideal trouble-lite for cars. Plugs into standard cigar lite socket. Uses little power but gives plenty of light for repairing the motor or fixing the tire. The red plastic rim is designed to act as a warning signal to other motorists. A 2" long magnet on the underside of the light attaches it securely the instant it is placed on the fender, etc. Also has convenient hanger. 12 ft. rubberized cord brings the light to any part of the car. Pkd. 6 to a counter display box. Maintained retail $3.85.

726R68—Per doz. $23.44

SAMPLE **$2.60**



THE WELIN MASTER CRUISER

THE WELIN FLIGHT EXPRESS

WELIN CRUISERS
BOATING'S BEST BUY!

1. The Safety of Steel.
2. Stress-free riveted construction for lifetime, vibration free hull.
3. Rustproofed—Hot dipped galvanized 12 gauge copper bearing steel.
4. Displacement—Planing Hull—Welin designed and tested.
5. Backed by 50 years of lifeboat building experience.
6. Low, Low first cost.
7. Lower insurance rates for Welin Owners.
8. Lowest maintenance costs.

WORLDS LARGEST BUILDER OF STEEL BOATS

$4980* F.O.B.—Welin Plant
Five 1951 Welin Cruiser models to choose from

*Prices and equipment subject to change without notice.

502 Please send me the free WELIN Steel fleet catalog.

Name

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(Tear off this part of page and send to)

Welin DAVIT AND BOAT DIVISION OF CONTINENTAL COPPER & STEEL INDUSTRIES, INC.
502 Market St., Perth Amboy, N. J.

Again in '51 BOATING'S BEST BUY —WELIN CRUISERS!

Only WELIN CRUISERS
Give You These Bonus Features...

1 SAFETY—The assurance that only a steel-hull can give —Puncture-proof tested with high velocity shells at point blank range.

2 SEAWORTHY — Ocean-test designed to bring you years of non-pounding, dry cruising. A ten-foot beam, high freeboard, self-bailing cockpit plus the experience gained from a half-century of building life-boats.

3 RIVETED CONSTRUCTION — The same type as in 20,000 Welin-built life-boats built to pass rigid government tests. Eliminates hull-stress and metal fatigue.

4 RUST-PROOFED—The heavy-duty steel in Welin Cruisers is a special 12-gauge, copper-bearing alloy— Each plate is steel mill, hot-dipped in pure zinc to permeate its skin and provide rust-proofing.

5 ECONOMY—Volume production brings the price way, way down—Steel hull eliminates dry rot, worms, split planking, caulking, and the yearly, costly labor that goes with putting over a wooden boat.

LOW *first cost for a Welin Cruiser.*
LOWER *insurance rates for Welin owners*
LOWEST *maintenance charges year after year.*

CHECK—AND YOU'LL CHOOSE A WELIN CRUISER!

SEE THESE TWO MODELS AT THE BOAT SHOW!

The Welin Flying Bridge Master Cruiser—*(above)*

A new deck plan—Two cabins, sleep four in comfort. Spacious main lounge with deep divan, dinette for four, gleaming galley, enclosed W.C. with full headroom and extra sink Solid mahogany woodwork—roomy, self-bailing cockpit—Carpeted cabin decks.

The Welin Club Sedan—*(below)*

A one cabin cruiser with full accommodations for four persons Private head Fair Vue visibility. Comfortable divan, pilot's seat, dinette for four Modern one-unit galley with built-in refrigerator Big self-bailing cockpit—Ideal for fishing or coastal cruising—Safe and seaworthy as a seagull—

$4980* F.O.B.—Welin Plant
Five 1951 Welin Cruiser models to choose from

*Prices and equipment subject to change without notice.

501 Please send me the free WELIN Steel fleet catalog.

Name

Address

State

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Welin

DAVIT AND BOAT DIVISION OF CONTINENTAL COPPER & STEEL INDUSTRIES, INC.
501 Market St., Perth Amboy, N. J

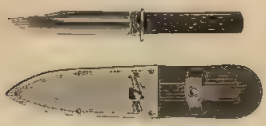
Hunting Knives

Western

With Sheaths

Embody the many quality features developed by three generations of cutlery craftsmanship. Perfectly balanced designs, sharp hand-ground blades of high carbon, electric furnace chrome vanadium steel. Streamlined end-knobs. Handles are highly polished, decorated natural leather, pearl composition or brilliantly colored long-lasting plastic.

Hunting Knife



Imperial

Plastic handle. Hi carbon steel blade. Length overall, 8¾ inches. With leather sheath

Stock No.	Mfr's. No.	Blade In.	Oz. Ea.	Cat. List EACH
2K 8401	HH6	5	5¼	$1.25

Twelve in a carton

Kinfolks

With Sheaths

Made of special analysis high carbon chrome steel, and pyrometer controlled heat, making possible an even grain structure for sharper and more durable edges, assuring a finished product of highest quality featuring sharp, durable edges and rugged construction for years of service.

Large handle of yellow unbreakable marblette with red and black fibre trim at center and each end. With sheath

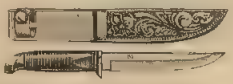
Stock No.	Mfr's. No.	Blade Lgth	Oz. Each	Fact. List EACH
2K 8340	Y350	5¼	8	$4.55

Full grip leather, brass and colored fibre washer handle. With sheath

Stock No.	Mfr's. No.	Blade Lgth.	Oz. Each	Fact. List EACH
2K 8339	350	5¼	8	$3.85

Full length leather handle with brass and colored fibre trim. Handle has special finger grips for better hold. With sheath.

Stock No.	Mfr's. No	Blade Lgth.	Oz. Each	Fact. List EACH
2K 8341	368	5¼	8	$3.85



Laminated leather handle with brass and colored fibre trim. Drop Knob, shaped to fit the hand. With sheath

Stock No.	Mfr's. No.	Blade Lgth.	Oz. Each	Fact. List EACH
2K 8338	382	5	6	$3.45

Yellow or green marblette handle with colored washers and brass trim at each end and center. With sheath

Stock No.	Mfr's. No.	Blade Lgth.	Oz. Each	Fact. List EACH
2K 8336	Y330	4⅜	7	$3.45
2K 8337	R330	4½	7	3.45

Dinnerware

9-Piece Ovenware Assortment

Universal Potteries

Assortment composed of 9 pieces. Depicts a dutch windmill scene with blue and yellow predominating. Ivory background.

Composition: 2 each 1 Pt. mixing bowl sets
1 each 6-Pc. Left over set
2 each 2-Pc. Pie Sc.
2 each 3-Pc. Salad Sets
2 each 3 Pc. Casserole Sets

Stock No.	lb. Each	Fact. List ASST.
4C 3875	44	▲$88.66

One in a carton.

Colored Stoneware

Decorated Teapots

Borgfeldt

Brown English decorated teapots with lock lid covers. Carton contains 6 teapots, 2 each of 3 assorted decorations.

Stock No.	Cap. Cups	lb. Doz.	Cat. List EACH
4C 3800	4	32	▲$1.60
4C 3801	6	26	▲ 1.90
4C 3802	8	30	▲ 2.25

One-half dozen in a carton.

Colored Stoneware

Old Fashioned Bean Pots

Seven-Piece Set

Ovenproof brown glazed earthenware.

Stock No.	Mfr's. No.	Cap. Qts.	lb. Set	Fact. List SET
4C 3862	260	2	9	▲$3.00

One set in a carton.

Bean Pot Only

Stock No.	Mfr's. No.	Cap. Qts.	lb. Doz.	Fact. List EACH
4C 3860	33	2	48	▲$1.09

One dozen in a carton.

6-Piece Cookie Jar Assortment

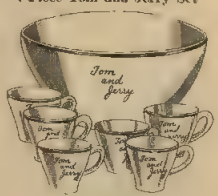
Western

Assortment contains six cookie jars in assorted colors. Hand decorated and lacquered. Teddy bear, rabbit, blind mice, ginger bread boy, and animal cracker. All are 4 quart capacity except animal cracker which is 3½ quart.

Stock No.	Mfr's. No.	No. of Pieces	lb. Asst.	Cat. List ASST.
4C 3852	C86	6	33	▲$10.45

One assortment in a carton.

7-Piece Tom and Jerry Set



A very attractive set for Holiday Festivities. Set includes one large white gold decorated bowl and six gold trimmed mugs. The beautiful set combines good appearance and quality.

Stock No.	lb. Set	Cat. List SET
4C 3865	8	$6.00

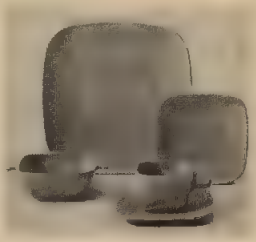
One set in a carton.

▲We do not break assortments or cartons.

Brookpark Plastic Dinnerware

International Molded Plastic Inc.

Brookpark is the most durable dinnerware possible. It's resistant to breaking, chipping and crocking. Hot water will not affect its gloss or color. It's the truly economical dinnerware. The once-in-a-lifetime dinnerware for every family.



20-Piece Sets

Set consists of 4 dinner plates, 4 bread and butter plates, 4 cups, 4 saucers, 4 big soups

Burgundy Stock No.	Chartreuse Stock No.	Emerald Stock No.	Gray Stock No.	Rainbow Stock No.	Mfr's No.	Pcs. In Set	Service For	lb Set	Fact List SET
4C 2500	4C 2525	4C 2550	4C 2575	4C 2600	B20	20	4	10¼	$22.50

Open Stock

Burgundy Stock No.	Chartreuse Stock No.	Emerald Stock No.	Gray Stock No.	Mfr's. No.	Size	Item	In Ctn.	lb Ctn.	Fact List EACH
4C 2503	4C 2528	4C 2553	4C 2578	1B	10"	Dinner Plate	24	22	$1.25
4C 2504	4C 2529	4C 2554	4C 2579	2B	8"	Salad	48	28	1.50
4C 2505	4C 2530	4C 2555	4C 2580	3B	6"	B & B	48	16	1.10
4C 2507	4C 2532	4C 2557	4C 2582	5B		Soup or Cereal Bowl	48	19	1.50
4C 2508	4C 2533	4C 2558	4C 2583	11B		Fruit	48	18	1.25
4C 2509	4C 2534	4C 2559	4C 2584	6B		Coffee Cup	48	16	1.35
4C 2510	4C 2535	4C 2560	4C 2585	4B		Saucer	48	17	1.15
4C 2513	4C 2538	4C 2563	4C 2588	7B	13½"	Platter	12	16	3.95
4C 2515	4C 2540	4C 2565	4C 2590	8B		Open Vegetable	12	12	3.50
4C 2517	4C 2542	4C 2567	4C 2592	9B		Open Sugar	12	5	1.75
4C 2518	4C 2543	4C 2568	4C 2593	10B		Creamer	12	5	1.75

4-Piece Soup Bowl Set

Burgundy Stock No.	Chartreuse Stock No.	Emerald Stock No.	Gray Stock No.	Mfr's. No.	Sets In Ctn.	lb Ctn.	Fact List SET
4C 2533	4C 2548	4C 2573	4C 2598	B34	12	5	$3.00

5-Piece Service Piece Set

Set consists of: 1 platter, 2 vegetable dishes, 1 sugar, 1 creamer

Burgundy Stock No.	Chartreuse Stock No.	Emerald Stock No.	Gray Stock No.	Mfr's. No.	Sets In Ctn.	lb Ctn.	Fact List SET
4C 2534	4C 2549	4C 2574	4C 2599	B35	4	6	$13.75

Four sets in a carton

32 Piece Rainbow Open Stock Deal

Deal consists of 12 Rainbow salad plates, 12 Rainbow fruits, 1 Chartreuse platter, 1 Emerald platter, 1 Burgundy vegetable dish, 1 Gray vegetable dish, 1 Chartreuse open sugar, 1 Emerald open sugar, 1 Chartreuse creamer, 1 Emerald creamer

Stock No.	Fact List DEAL
4C 2602	$58.50

Dry Batteries

Dry Cell "B" Battery
For Portable Receivers

Stock No.	Mfr's. No.	Volts	Lgth. In.	Wd. In.	Ht. In.
2J 4588	482	45	3 1/16	1 1/2	5 1/4

Fact. List EACH $2.27

Weight: twenty-five pounds.
Six in a carton.

Hot Shot
Eveready Steel Case

Recommended for all purposes requiring four or more dry cells in series. It is only necessary to connect two wires to the binding posts and the battery is ready to operate. Particularly adapted for tractors, small automobiles, motor boats, gas engines, fire and burglar alarms, etc.

Stock No.	Volt No.	Cells	Rows	Lgth. In.	Wd. In.	Ht. In.	No. In Std. Pkg.	Std. Pkgs.
2J 4585	6	4	1	10 7/16	2 3/4	6 1/2	64	6
2J 4586	7 1/2	5	2	7 7/8	5	6 1/2	52 1/2	4

Fact. List EACH

Stock No.	Mfr's. No.	lb Each	
2J 4585	1461	8 1/4	$3.50
2J 4586	1562	11	4.50

Electric Fans
Westinghouse

Lively Aire—Desk or Bracket

Oscillating

Handsome modern styling streamlined for super air flow. Baked-on blue grey enamel finish. Specially designed "Powersphere" metal blades. Reinforced one-piece welded steel guard. Powerful induction type motor. No radio interference. Arc of oscillation adjustable to any angle from 0 degree to 75 degrees. Easily adjustable for wall mounting. Guard wires welded together into a single unit.

Stock No.	Cycle	Blade In.	Speed	R.P.M.	Watts	C.F.M.
1J 4219	60	10	1800	1250	50	600
1J 4220	60	12	1450	1200	52	800

Fact. List EACH

Stock No.	Mfr's. No.	lb Each	
1J 4219	10LA	7 1/2	$16.95
1J 4220	12LA	11	26.55

One in a box.

Non-Oscillating

Stock No.	Cycle	Blade In.	Speed	R.P.M.	Watts	C.F.M.
1J 4215	60	10	1800	1250	50	600

Fact. List EACH

Stock No.	Mfr's. No.	lb Each	
1J 4215	10LD	7	$9.95

Pacemaker—Desk or Bracket

Oscillating

Smart streamline design, quiet Micarta blades, reinforced one piece welded steel guard. 75 per cent oscillation arc. Oscillation center adjustable. Mahogany brown baked on enamel finish. Easily adjustable for mounting. 1-2-3 speeds. Snap type switch. Automatic friction clutch. Powerful Westinghouse induction type motor.

Stock No.	Cycle	Fan Size In.	Speeds R.P.M. 1	2	3	Watts	Cu. Ft. Air Per Min.
1J 4232	60	16	1400	1250	1100	95	1350

Fact. List EACH

Stock No.	Mfr's. No.	Approx. lb Each	
1J 4232	16SD	10 3/4	$44.95

One in a box.

Power-Aire—Desk or Bracket

Oscillating

Handsome modern styling. Streamlined for super air flow. Gun metal gray baked-on enamel finish. Deep pitched ultra quiet micarta blades, reinforced one-piece welded steel guard, powerful induction type motor. No radio interference. Fully enclosed automatic clutch oscillating mechanism. 3-speed snap type switch. Oscillating center adjustable 75 to 45 percent adjustable oscillating arc.

Stock No.	Cycle	Fan Size In.	Speeds R.P.M. 1	2	3	Watts	C.F.M.
1J 4228	60	16	1050	850	700	75	1670

Fact. List EACH

Stock No.	Mfr's. No.	Approx. lb Each	
1J 4228	16PAM	24	$49.95

Power-Aire—Pedestal Fan

Oscillating

Handsome modern styling. Streamlined for super air flow. Gun metal gray baked on enamel finish. Deep pitched, ultra quiet micarta blades. Reinforced, one-piece welded steel wire guard. Powerful induction type motor. No radio interference. Fully enclosed automatic clutch mechanism. 75 to 45 percent oscillating arc. Oscillating center adjustable. Tilt adjustment within 20 degrees below and 20 degrees above horizontal. 3-speeds, snap-type switch at top of upper column. Column adjustable anywhere between 46 and 66 inches. Upper chrome plated, lower column gray enamel. Sturdy cast iron base finished in baked on gray enamel.

Stock No.	Cycle	Fan Size In.	Speeds R.P.M. 1	2	3	Watts	C.F.M.
1J 4236	60	16	1050	880	750	75	1450

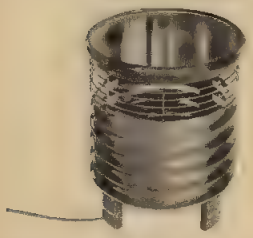
Fact. List EACH

Stock No.	Mfr's. No.	Approx. lb Each	
1J 4236	16SDP	53	$64.95

Electric Fans

Westinghouse

Debonaire—Floor Circulator

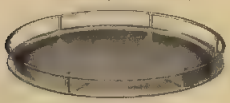


Because of design principles, including jet action with air injector rings, the Debonaire will deliver more air just where you want it without annoying drafts. Specially constructed, deep pitched blades, supersafe and ultra quiet. Lightweight, exceptional strength and durability. No hum, vibration or radio interference. Rich maroon, baked-on enamel finish with chromium finish.

Stock No.	Cycle	Fan Size In.	Speed	Watts	C.F.M.
1J 4223	60	10	1500	55	440
1J 4239	60	16	1425	95	2700

Stock Nr	Mfr's. No.	lb Each	Fact. List EACH
1J 4223	10DA	15	$44 95
1J 4239	16DA	45	54 95

Hostess Tray—Accessory



Micarta Hostess Tray for 16DA Hassock Fan

Stock No.	Mfr's. No.	lb Each	Fact. List EACH
2J 4240	DAHT.	5	$9 95

One in a carton.

Westinghouse—Whirl-Aire Pedestal Fan

With Air Jet Vanes

Blades—Wide area type, laminated plastic micarta with rounded edges. Will not warp or transmit metallic noises. Each blade riveted to steel spider. Entire blade unit precision balanced before assembly.

Guard—Front and rear ½ inch mesh-woven steel wire, chromium finish. Front grille removable for access to motor and blades.

Air Injector Rings—Five parallel steel rings. Outside edges rounded. Each ring welded to four steel through straps to make rigid one piece construction.

Switch—Two speed snap type with control located at bottom of rear grille. Positions for "off", "high", "low".

Motor—Westinghouse capacitor type with distributed windings and squirrel cage rotor. Bearings are individual self aligning porous sleeve type held by spring steel retainers. Die cast motor housing.

Capacitator—Built inside of metal container which has had air removed and insulating oil put in, container sealed (hermetically) airtight.

Base—Heavy steel boiler plate with thick rubber ring on outside edge.

Cord and Plug—10 foot rubber cord with standard attachment plug.

Non-Oscillating

Stock No.	Cycle	Fan Size In.	Speeds R.P.M. 1	2	Watts	Max. Air Velocity Ft. Per Min.
1J 4233	60	16	1040	700	110	1350
1J 4253	60	20	1070	700	240	1760

Stock No.	Mfr's. No.	Approx. lb Each	Fact. List EACH
1J 4233	16WAP	36	$39 95
1J 4253	20WAP2	145	134 95

One in a box.

Air Jet Vanes

Air jet vanes for Mfr's. No. 16WAP and 16WA. Vanes concentrate the air stream to provide a deep penetrating or long range air stream.

Stock No.	Mfr's. No.	Size In.	lb Each	Fact. List EACH
1J 4244	16AJV	16	7	$9 95

Westinghouse—Whirl-Aire Counter Fan

With Air Jet Vanes

Same as Mfr's. No. 16WAP except is a counter model. May be used on the floor, table or shelf. Also may be mounted on walls or ceilings.

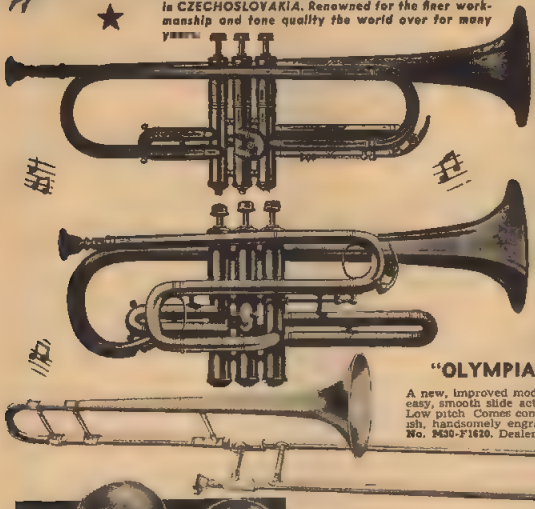
Stock No.	Cycle	Fan Size In.	Speeds R.P.M. 1	2	Watts	Max. Air Velocity Ft. Per Min.
1J 4230	60	16	1040	700	110	1350
1J 4252	60	20	1070	700	240	1760

Stock No.	Mfr's. No.	Approx. lb Each	Fact. List EACH
1J 4230	16WA	30	$74 95
1J 4252	20WA2	91	114 95

One in a box.

The Olympian "Stands All Tests"

FINEST QUALITY BAND INSTRUMENTS

"OLYMPIAN" Band Instruments are manufactured by the most reputable maker of Band Instruments in CZECHOSLOVAKIA. Renowned for the finer workmanship and tone quality the world over for many years.

"OLYMPIAN" STANDARD TRUMPET

• GRACEFUL DESIGN • FINEST WORKMANSHIP •

• FREE, EASY ACTION • PERFECT TONE •

One of the fastest selling, quality made trumpets on the market today. Built-in Bb with fast easy change to A. Pearl buttons, finger hook, mouthpiece and music rack. Gold lacquered and richly engraved. List 52.50.

No. M30-F1610. Dealer's, each 35.00.
Less 2% net **34.30**

— CASE FOR ABOVE —

Hard shell, French shape, flannel lined. List 12.75.
No. M30-1201. Dealer's, each 8.50. Less 2% net 8.33

"OLYMPIAN" STANDARD CORNET

• FINEST WORKMANSHIP • EASY TO BLOW •

• BEAUTIFUL FINISH • QUICK RESPONSE •

An up-to-date, modern designed Cornet, with fine richness of tone. Suitable for solos as well as band or orchestra playing. Built-in Bb with quick change A. Smooth, easy action piston valves with pearl top buttons. Gold lacquered and handsomely engraved. List 52.50.

No. M30-F1800. Dealer's, each 35.00.
Less 2% net **34.30**

— CASE FOR ABOVE —

Top quality hard Shell. French shape, flannel lined case. List 12.75

No. M30-1210. Dealer's, each 8.50. Less 2% net 8.33

"OLYMPIAN" STANDARD SLIDE TROMBONE

A new, improved model, with specially designed short, light outside slide. Quick, easy, smooth slide action. Perfect tone. Solidly braced and well built throughout. Low pitch. Comes complete with music rack and mouthpiece. Gold lacquered finish, handsomely engraved. List 59.50

No. M30-F1620. Dealer's, each 39.67. Less 2% net **38.88**

— CASE FOR ABOVE —

Hard shell, French shape, flannel lined finest quality case. List 27.50.
No. M30-1221. Dealer's, each 18.33.
Less 2% net 17.96

"OLYMPIAN" BARITONE

A fine Bb baritone, with finest design, workmanship and richness of tone. Easy action valves, with quick response. The baritone has always had an important position in the band as a background horn. The bell measures 11" and is handsomely engraved. Beautiful gold lacquered finish

List 170.00
No. M30-F1670. Dealer's, each 113.33.
Less 2% net **112.06**

CASE FOR ABOVE — Top quality hard shell, French shaped case. List 42.50.
No. M30-2580. Dealer's, ea 28.33. Less 2% net, 27.76

"OLYMPIAN" ALTO

Precision built to meet the highest standards. Built-in Eb, low pitch with smooth working, light action piston valves, with pearl button tops. Bell measures 7⅜" and is handsomely engraved. Comes complete with music rack and mouthpiece. Gold lacquered finish. List 137.50

No. M30-F1650. Dealer's, each 91.67.
Less 2% net **89.84**

CASE FOR ABOVE — Finest quality hard shell, French shaped case. List 38.50
No. M30-2570. Dealer's, ea. 25.67. Less 2% net..25.16

"OLYMPIAN" BBb SOUSAPHONE

The scale is true with smooth easy valve action. Perfectly balanced and ruggedly built. 52" high, 26" detachable bell 26 lbs lacquer finish. List 385.00

No. M30-F1690. Dealer's, each 257.00
Less 2% net **251.86**

"OLYMPIAN" Eb SOUSAPHONE. 50" high, 24" detachable bell 18 lbs. Gold lacquered finish. List 337.50.

No. M30 F1680. Dealer's ea 225.00. Less 2% net 220.50

William Frank

CLASSIC Eb ALTO SAXOPHONE

Here is a top quality saxophone built for performance and service. An easy blowing, precision tuned saxophone anyone would enjoy playing. Designed to the most exacting professional requirements. Accepted by professionals as an outstanding instrument. Clear brass lacquered finish, easy blowing.

List 289.50
No. M3F 500A.
Dealer's, ea 179.67.
Less 2% Net **176.08**

MR. DEALER:

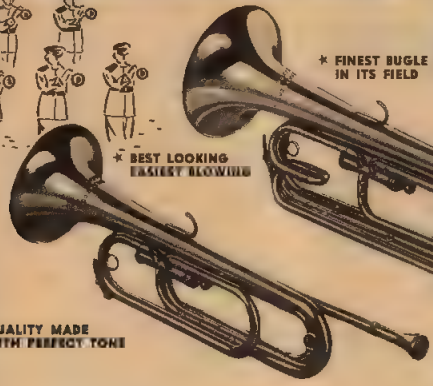
We can supply a complete line of musical instruments and musical suplies, many of which are not shown in this catalog. For information, write us your requirements.

WILLIAM FRANK Bb TENOR SAXOPHONE

Another first-line instrument which performs as beautifully as it looks. A greatly improved saxophone, which has a rich, deep tone with plenty of volume when you want it. And keys are so conveniently and naturally located as to make for the easiest type of performance. Already accepted by professionals as an outstanding instrument. Clear brass lacquered finish

List 299.50
No. M3F 510A.
Dealer's, each 199.67
Less 2% Net **195.68**

William Frank PISTON BUGLES



* FINEST BUGLE IN ITS FIELD

* BEST LOOKING EASIEST BLOWING

* QUALITY MADE WITH PERFECT TONE

* THE PERFECT BUGLE FOR MARCHING BANDS

WILLIAM FRANK SOPRANO PISTON BUGLE

Those who know bugles have always rated the Wm. Frank Piston Bugles as tops in the field. Now postwar improvements emphasize pre-war supremacy. Today's Frank models are without question, the best looking, easiest blowing and most dependable ever made. This bugle built in the key of G with slide to F. It also has one piston valve to key of D, or key of C. Truly a professional Regulation bugle in every respect. Operates with surprising ease. Dependable in pitch and tone. Silver plated mouthpiece. Clear brass lacquered finish. List 49.50.

No. M3-185A. Dealer's, each 33.00
Less 2% net **32.34**

WILLIAM FRANK TENOR PISTON BUGLE

The new G-D model bugles have brilliant tonal effects. The piston valve chain is easily operated by the thumb of the hand holding the bugle. It has a concealed lock, regulation pitch. Silver plated mouthpiece. It is expertly made and finished, with a clear brass lacquer. Easier to blow, more dependable. List 57.50

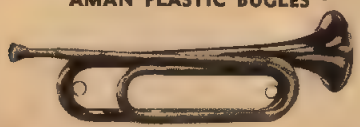
No. M3-166A. Dealer's, each 38.32.
Less 2% net **37.56**

WILLIAM FRANK BARITONE PISTON BUGLE

This bugle is pitched one octave lower than the soprano and gives the bass voice to the bugle section. This feature permits the music to be played as written without transposition. Built in key of G with piston change to D. Silver plated mouthpiece. Clear brass lacquered finish. Wm. Frank bugles "Tops in in the field" are fully guaranteed. List 86.50

No. M3-170A.
Dealer's each 50.67
Less 2% net **58.48**

• AMAN PLASTIC BUGLES •



Regulation size, made of plastic, drab olive color finish, with slide. List 6.00

No. M3-220D. Dealer's, each 4.00
Less 2% net **3.92**

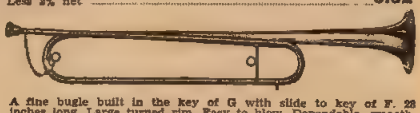
Same as above with lacquered finish. Colors: Blue, red, white, silver, brushed brass. Specify. List 7.50

No. M3-220I. Dealer's, each 5.00
Less 2% net **4.90**

Rexcraft BUGLES •

Here is a fine, quality made bugle, easy to blow and quick to respond. Made in the key of G with slide to key of F. Professional style. Made of brass, with polished finish. Complete with nickel plated mouthpiece and chain. List 13.15

No. M3R-220S. Dealer's, each 9.00.
Less 2% net **8.82**



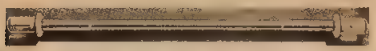
A fine bugle built in the key of G with slide to key of F. 22 inches long. Large turned rim. Easy to blow. Dependable, smooth, mellow tone. Fully guaranteed. List 22.50.

No. M3-220S. Dealer's, each 15.00.
Less 2% net **14.70**

NICK MANOLOFF . . . LIGHTED BATON

GUARANTEED UNBREAKABLE

5/8 STEEL SHAFT **Highly Polished Chrome Plated**



A fine quality lighted baton complete with 4 bulbs. Made of ⅝" steel shaft. Heavy molded plastic globes. Globes are protected by rubber bumper, bushing and washer. Light switch on each end. Globes come in your choice of 5 colors: Clear, Red, Blue, Green and Amber. Five different lengths: 22", 24", 26", 28", 30". **SPECIFY COLOR & LENGTH WHEN ORDERING.** Retail, less batteries, 9.50.

No. M1 B788. Dealer's, each 4.75.
Less 2% net **4.65**

MR. DEALER: We carry a complete line of musical instruments and music accessories, many of which are not listed in this catalog. For information write us your requirements.

WHOLESALE PHOTO SUPPLY CO.
42 W. GERMAK ROAD, CHICAGO 16, ILLINOIS

SEE PAGE 221 FOR ORDER BLANK

William Frank • BAND INSTRUMENTS •

WILLIAM FRANK "CLASSIC" Bb CORNET

Proudly presented as the finest cornet skill can create or money buy. Made with the precision of a fine watch. Slides are hand-ground to an air-tight fit Slide tubes are drawn with carbaloy dies for perfect fit and high temper Valves are precision drilled, with perfectly matched port holes. Pistons chromium-plated. Result Glorious tone, superb performance, effortless playing. Brass lacquered, nickel trimming. List 159.50

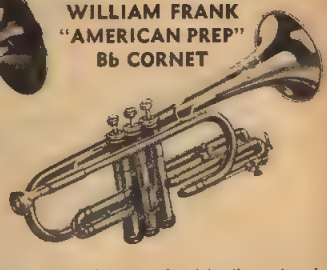
No. M3-100C. Dealer's, each 106.33. **104.20**
Less 2% net

WILLIAM FRANK "STANDARD" Bb CORNET

Frank craftsmanship in a moderately priced and truly fine cornet All we ask is that you examine and play the William Frank. Note that gleaming beauty, that eager response, and above all note that clear, true, brilliant tone. It's new from mouthpiece to bell, with new precision in grinding and fitting, new refinements and advances throughout. Clear brass lacquered finish List 127.50.

No. M3-200A. Dealer's, each 85.00. **83.30**
Less 2% net

WILLIAM FRANK "AMERICAN PREP" Bb CORNET



Beautiful tone, perfect intonation, extremely easy to blow Highly responsive. The ideal instrument for beginners and amateurs. This cornet as well as all musical instruments made by William Frank is fully guaranteed. Dimensions 17¼" long, 4½" bell diameter. Gold lacquered finish List 90.00.

No. M3-400D. Dealer's, each 80.00. **58.80**
Less 2% net

WILLIAM FRANK "CLASSIC" Bb TRUMPET

In every detail, the master creation of master workmen. Specially tempered bell. Chrome-plated pistons. Hand-fitted slides Micro-finished valves Nickel-silver slides and trimmings. Perfectly proportioned mouthpipe—all adding up to a superb trumpet unsurpassed in appearance, intonation and laying ease, with a crisp, clear, true trumpet tone. There is no finer trumpet made Brass lacquered, nickel trim. List 159 50

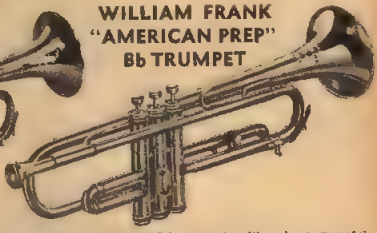
No. M3-170C. Dealer's, each 106.33. **104.20**
Less 2% net

WILLIAM FRANK "STANDARD" Bb TRUMPET

You'll be surprised, when you examine this trumpet, that so much real quality can be bought at so moderate a price The Frank "Standard" Trumpet is a professional trumpet in every sense of the word, carefully designed and precision built to thrill the amateur and please the pro It's perfectly balanced—easy to hold That Frank mark is a guarantee of rich, true trumpet tone. Clear brass lacquered finish. List 127.50.

No. M3-210A. Dealer's, each 85.00. **83.30**
Less 2% net

WILLIAM FRANK "AMERICAN PREP" Bb TRUMPET



A wide model trumpet, with a long, graceful appearance, perfectly balanced, has a tone of remarkable beauty and brilliancy. The ideal trumpet for beginners and amateurs. Exceptional value Fully guaranteed Dimension 20" long, 4½" bell diameter. Gold lacquer finish. List 90.00.

No M3-410D Dealer s, each 80.00. **58.80**
Less 2% net

WILLIAM FRANK "STANDARD" Bb TROMBONE

A unique combination of the most modern precision equipment and old-time standards of hand craftsmanship endow the William Frank "Standard" Model Trombone with truly extraordinary tone, intonation, carrying power and playing ease . . . To see the instrument is to fall in love with its flashing beauty . . . To play it is to realize that you have come to the end of your trail in your search for a perfect trombone. Bell diameter 7" Clear brass lacquer finish. List 127 50

No. M3-220A. Dealer's, each 85.00. **83.30**
Less 2% net

WILLIAM FRANK "AMERICAN PREP" Bb TROMBONE

A scientifically proportioned Trombone with extremely light slide action. Perfect Balance. Equipped with a detachable balancer and slide lock.—The perfect Trombone for the beginner or the amateur. Fully guaranteed. Gold lacquer finis. List 85.00.

No. M3-420D. Dealer's, each 58.67. **55.54**
Less 2% net

SENSATIONAL NEW PORTABLE ELECTRIC ORGAN

MAGNUS

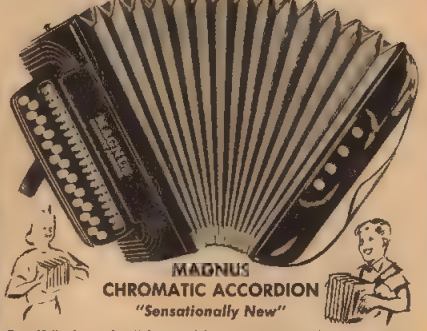
HARMONICAS • KEYMONICAS
ACCORDIONS • CONCERTINAS • ORGANS

• EASY TO PLAY •

MAGNUS PORTABLE ELECTRIC ORGAN

- **THIS MOST REMARKABLE MUSICAL INSTRUMENT OF EXQUISITE MODERN DESIGN HAS A DEFINITE PLACE IN EVERY AMERICAN HOME.**
- **YOUNGSTERS AND ADULTS, STUDENTS AND TEACHERS ALIKE WILL THRILL TO ITS RICH, INSPIRING ORGAN TONES AND ITS EASY PLAYING QUALITIES. OPENS NEW WORLDS OF MUSICAL PLEASURE TO ALL.**

Two full chromatic octaves, with 25 piano keys, 15 white and 10 black, large enough to permit playing with ease and comfort. Operates electrically on 110-115 A.C. current. Scientifically designed MAGNUS organ reeds respond to slightest touch of the keys — sustained notes and chords are full-bodied and rich in vibrant melody. Portable - easy to carry — conveniently light in weight. Carefully inspected and guaranteed against defects. Size overall 11½" x 6⅝" x 5½". Weight 7½ lbs. Priced for Volume Sales! Retail 18.75
No. MM1510. Dealer's each 11.25.
Less 2%..... **11.02**



MAGNUS CHROMATIC ACCORDION

"Sensationally New"

Beautifully designed light in weight — yet compact and strong. Bellows are made of pyroxalin cloth laminated on manila board and will stand long and frequent use. The ideal accordion for the individual who wants to play some musical instrument for his own enjoyment.
The 40 notes for the right hand are arranged in SOLO Chromatic Harmonica tuning — Key of C with 20 ivory-like button keys. There are 4 bass button keys actuating 16 reeds for chord accompaniment for the left hand also an air release valve conveniently located.
Fingerboard, grille, and ends are of richly designed polystyrene plastic with leather-like straps and catches Over-all size closed 5¼" x 10¾" x 6". Fifteen-fold bellows opens to almost 19". Retail 9.95.
No. MM2456. Dealer's, each 6.00.
Less 2%, net..... **5.88**

MAGNUS "SUPER" ACCORDION

Streamlined plastic case beautifully designed Strong durable bellows made of pyroxalyn-coated fabric in beautiful contrasting colors—10 quick-acting ivory-like buttons 20 long-life reeds accurately tuned to the key of C—full volume tone Over-all size of instrument 4"x4½"x8½" closed, bellows open to 14" Instrument booklet and song folio furnished with each instrument. Individually boxed Retail 3.95.
No. MM41020. Dealer's, each 2.40.
Less 2%, net..... **2.35**

MAGNUS "JUNIOR" ACCORDION

A compact playable little instrument for youngsters - produces plenty of volume—plays an octave and a half in the key of C—ivory-like keys—12 long life reeds—streamlined plastic case — bellows are pyroxalyn-coated fabric in contrasting colors ideal for long usage—Size 2⅝"x3½"x5" closed, bellows open to 5" instruction booklet and song folio furnished with each instrument. Retail 1.69.
No. MMA612. Dealer's, each 1.00.
Less 2%, net..... **.98**

MAGNUS CHROMATIC HARMONICA

A marvelously constructed and superbly designed Chromatic Harmonica. Smartly styled — complete with radically new shift mechanism 10 holes—40 long-life reeds— smooth, comfortable mouthpiece. Streamlined covers—rich eye-appealing pearl-silver finish -over-all length 6⅝ inches — aerodynamic tone-chambers — individually packed in specially designed plastic box. Key of C SOLO TUNING. Retail 3.98.
No. MM500. Dealer's, each 2.00.
Less 2%, net..... **1.96**

Tops for 1951

MAGNUS CONCERTINA

Tone is rich and full, keys work easily and reeds are quick-responding. Tuned in key of "C". The six keys for right hand play 1½ octaves have 12 reeds The bass key for left hand actuates 6 notes. Bellows are brightly colored pyroxalin fabric, 9 folds, opens to 11½" Six sided end cases are 5⅜" in diameter and molded of polystyrene. Closed to 6¼". Complete with song instruction folio Retail 2.95.
No. MM718. Dealer's, each 1.95.
Less 2%, net..... **1.91**

MAGNUS "KEYMONICA"

10 button keys, 20 long-life reeds, key of "C" tuning, beautifully decorated plastic body in bright colors. Lip comfort mouth piece, safe and sanitary even for the youngest child. Magnus "number system" amazingly easy to learn. Complete with instruction book. Size 7¼"x3⅝"x1⅛". Retail .98.
No. MM100. Dealer's, each .60.
Less 2%, net..... **.59**

MAGNUS HORN HARMONICA

A marvelously improved instrument with terrific eye appeal. The amplifying horn adds to volume of tone. Fascinating effects are produced by cupping hand over horn. Over-all length 5 inches. Bright colored plastic covers. 10 holes—20 reeds—key of "C"—2½ octaves. Retail .89.
No. MM80. Dealer's, each .53.
Less 2%, net..... **.51**

MAGNUS LONE RANGER HARMONICA

Here is a harmonica that will corral every Lone Ranger fan. The Lone Ranger and his horse Silver are embossed, on the gleaming gold-plated covers. Clear rich tone 10 holes, 20 reeds, tuned to the key of "C" Aerodynamic tone-chambers assure quick easy response of reeds. Size 4½ inches—each instrument comes individually packed in a colorful display carton. Retail 98.
No. MM100LR. Dealer's, each .60.
Less 2%, net..... **.59**

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WHOLESALE PHOTO SUPPLY CO.
42 W. GERMAK ROAD, CHICAGO 16, ILLINOIS
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WRIGHT AND DITSON TENNIS RACKETS

THE "PARK"

A good, sturdy racket that is very popular in the low-priced field. 8-ply ash and fibre construction. Bindings on shoulder and throat. Black patterned leather grip. Monofilament nylon strung. Ship. wt. 2 lbs.

710R17.....EACH **$4.80**

THE "PARAMOUNT"

A players racket of 8-ply ash and fibre construction. Full size flat reinforcement bow overlay. Natural finish on handle flakes. All sides of throat and overlay painted white. Tan leather grip with outside grooves. Strung with monofilament nylon. Ship. wt. 2 lbs.

710R18.....EACH **$6.35**

THE "TROPHY"

A quality racket of 3-ply ash and fibre construction with white fibre faces over throat for extra strength. Full reinforcement overlay, painted white with remainder of frame in natural finish. Dark tan grooved leather grip. Strung in monofilament nylon. Ship. wt. 2 lbs.

710R19.....EACH **$8.70**

THE "PRIZE CUP"

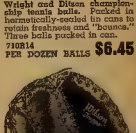
The finest tennis racket money can buy. 11-ply laminated construction of ash and fibre strips. Natural finish frame. Australian-type handle flakes of tough, flexible cane. Reinforced with shoulder pallets and rawhide shoulders. Selected blue leather grip, perforated and skived. Strung with the new multiply nylon, the finest of stringing. Ship wt 2 lbs.

710R20....EACH **$13.80**

CHAMPIONSHIP TENNIS BALLS

Wright and Ditson championship tennis balls. Packed in hermetically-sealed tin cans to retain freshness and "bounce." Three balls packed in can.

710R14
PER DOZEN BALLS **$6.45**



YOUTH'S TRAPPER BASEMEN'S MITT

The number one choice with first basemen throughout organized ball. New design allows more action of all fingers. Tan color cowhide—fully oiled. Hand-formed felt pad and reinforced thumb and finger sections. Leather set pocket. Adjustable leather loop for little fingers. Ship. wt. 2 lbs.

722R9 .....EACH **$6.90**

WILSON BASEBALL EQUIPMENT

PROFESSIONAL BALL HAWK "3"

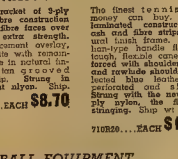
Made of high grade tan color cowhide in a medium size. Streamlined, Kurv Form fingers. Hand formed jute felt pad. Fully oiled and grease set pocket. Roll leather binding. Rawhide lacing at wrist. Adjustable leather wrist strap. Ship. wt 2 lbs.

722R6.....EACH **$7.95**

TED WILLIAMS' AUTOGRAPH MODEL

Large size. Sturdy tan color cowhide. Hand formed, deep grease set pocket. Jute felt padding. Fully oiled. Double tunnel leather thumb trap. Leather laced wrist. Ship. wt. 2 lbs.

722R8 .....EACH **$6.40**



VIRGIL DAVIS CATCHER'S MITT

Large size with a deep pocky-broke pocket. Made of high grade, tan color cowhide. Wet, shaped, jute felt padding. Built-in grease set pocket. Leather laced edge. Adjustable leather laced wrist strap lined with lamb's wool. Ship. wt. 2 lbs.

722R5 .....EACH **$7.50**

As above: With new, one piece pitcher's type web for concealing the ball. Flat style binding. Ship wt 2 lbs.

722R7 .....EACH **$6.40**

WILSON BASEBALLS

Official approved league—a top grade ball for long hard service. Cork and rubber center. Anchored and balanced winding with high quality blue, gray and white wool yarn. White chain-stitched selected horsehide cover. Ship wt 1 lb.

722R1 .....EACH **$1.60**

WILSON 12-INCH SOFTBALL

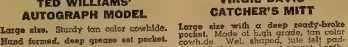
Tournament Official. A standout ball in many leagues. New private Zeke knock center. Yarn wound. Pre-Vulcanized inner covering. Double hand stitched with white wax thread. Top grade, specially selected pearl horsehide cover. Ship. wt. 1 lb.

722R2 .....EACH **$1.95**

WILSON OFFICIAL SOFTBALL BAT

Made of hickory in Brown finish. Taped grip. Ship wt 3 lbs.

722R4 .....EACH **$1.25**



WILSON BASEBALL BATS. Professional Model. Made of the finest quality timber, seasoned to provide proper balance, strength, and driving power. Saddle brown finish.

Assorted models and lengths to the dozen. Ship. wt. 3 lbs

722R3 .....EACH **$1.90**

It's sew much more professional to use WISS
SHEARS AND SCISSORS
DRESSMAKERS' SHEARS
(Illustrated above)
Have bent handles for smooth cutting ease, and more precise pattern cutting. No. 127, 9"
SEWING SCISSORS
Perfect answer to all light cutting needs. No. 815, 8"
EMBROIDERY SCISSORS
Needle-sharp points cut quickly, easily. No. 763½, 3½"
BUTTONHOLE SCISSORS
For professional accuracy—plus! Adjusts to any size cut up to 1½". No. 14
PINKING SHEARS
New Model C, 9 inches. Incomparably better than ever before, easier to cut with no Black handles.
WISS
WISS Shears and Scissors
J. Wiss & Sons Co., Newark 7, N. J. Over 108 years of quality shears.
Manufacturers of shears, scissors, pinking shears, metal cutting snips and garden shears.

Mention Hardware Age When Writing

WOLVERINE
TOYS FOR SPRING

Ready NOW!

NEW . . . No. 19 Merry Masons

NEW Sand Sieve Sets
No. 66 Shown above
No. 65 and No. 68
All Featuring Plastic Molds

Illustrated are a few of the "NEW" Wolverine Toys for Spring. There are many others.

NEW . . . 93A Luxury Liner

New Colors
No. 16 Embossed Pail
with Metal Shovel

New Colors
No. 47—Embossed Sprinkler

NEW DESIGN . . . S-87 Submarine

NEW . . . 86—Aircraft Carrier

IMPORTANT . . . Write for New Full Color Catalog

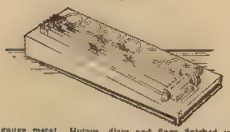
WOLVERINE MADE IN U.S.A.

WOLVERINE SUPPLY & MFG. CO.

Factory: Pittsburgh, Pa. New York Office: 200 Fifth Avenue · Room 436 OR 5-3080

Wolverine

Gee Wiz

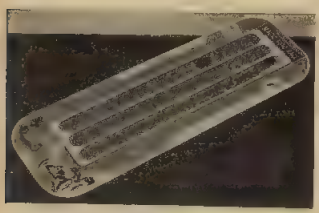


Heavy gauge metal. Horses discs and flags finished in 6 bright corresponding colors. By spinning fly wheel with cord, shaft drives balls against horses advancing them along tracks. No gears, no springs. One in a box.

Stock No.	Mfr's. No.	Lgth. In.	lb Doz.	Cat. List EACH
4H 4418	40	15½	26	$2.95

One-half dozen in a carton

Magic Auto Race



When handle is turned the track wheales and three racing cars speed down their individual tracks. On reaching the end, each turns around and returns on the same track. Race may consist of any number of laps. Cars reverse direction at either end. Tracks are separated. Winner in doubt to last second.

Stock No.	Mfr's. No.	Lgth. In.	lb Each	Cat. List EACH
4H 4469	141	28	1½	$2.00

Twelve in a carton

Submarine

[illegible] steering action. Guided it as it speeds along the surface then drops its nose in a graceful dive only to rise and break through the surface just like any big underwater craft. Especially durable construction. Easy to wind motor.

Stock No.	Mfr's. No.	Lgth. In.	lb Doz.	Cat. List EACH
4H 4424	287	15½	17½	$1.75

One dozen in a carton

Luxury Liner

Heavy gauge metal. Brightly lithographed in real detail. Two streamlined smoke stacks. Strong key winding mechanical motor. Key permanently attached. One in a box.

Stock No.	Mfr's. No.	Lgth. In.	lb Doz.	Cat. List EACH
4H 4435	93	142	12½	$1.25

One dozen in a carton.

Aircraft Carrier

Latest design. Practical on land and water. Super structure and deck richly lithographed. Guns, landing positions and deck equipment reproduced in detail. One piece metal hull, waterproofed. 3 plastic airplanes and braided looped cord included. One in a decorated box.

Stock No.	Mfr's. No.	Lgth. In.	lb Doz.	Cat. List EACH
4H 4463	86	18½	19	$1.15

One dozen in a carton

Speedway Bus

All metal, brightly lithographed with mystery motor. Pressure on back of top sends bus on run for a long distance. No batteries. Key or winding. One in a box.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 4411	28A	17½	$1.20

One dozen in a carton.

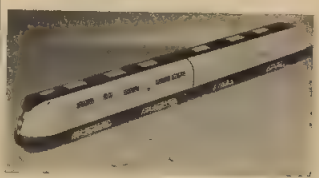
Taxi

The taxi is equipped with a new, improved, powerful mystery motor. No key or winding is required. Mere pressure on back of top sends the cab speeding ahead. Car is lithographed in brilliant colors, with massive bright metal bumpers front and rear. Size 12¾ inch long.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 4451	33	17	$1.65

One dozen in a carton

Diesel Pull Train



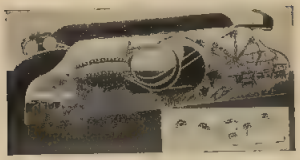
Fast moving two-car [illegible] modeled after latest diesel train. Big engine power car is coupled to [illegible] observation car, loud bell in engine. Colorful realistic lithography. Length of combination 34 inches. Each set in a colorfully decorated box.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 4467	164	30	$2.05

One dozen in a carton

Wolverine

Loop The Loop

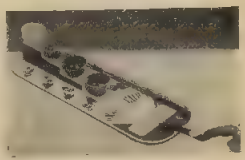


Car starts from top of track, zooms down grade, does a complete somersault in center loop and climbs other track to the end, then reverses for the same procedure in the other direction. Tracks move up and down. Balls fling for extra excitement. Strong key wind motor. Beautifully lithographed.

Stock No.	Mfr's. No.	Lgth.	Ht.	lb. Each	Cat. List EACH
		— Inches —			
4H 4472	30	19	6½	3	$2.95

Six in a carton.

Jingle Cups

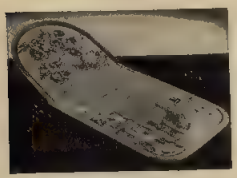


Shoots colored discs from spring aiming to land in one of 4 colored cups at the back of the range. These cups varied in height and in four different colors. Are distinguished by different point scores. Cups ring as discs land in cups. Overall length of game 18¼ inches. Discs included.

Stock No.	Mfr's. No.	lb. Doz.	Cat. List EACH
4H 4452	144	18	$0.95

Two dozen in a carton.

Shoot-A-Loop



Marble is shot from flat steel spring in base. It rolls speedily up and around the looped track. The idea is to land the marble in one of the scoring holes in the bridge. All metal. Brightly lithographed. Marbles included.

Stock No.	Mfr's. No.	Lgth. In.	lb. Doz.	Cat. List EACH
4H 4446	89	8	7½	$0.55

Three dozen in a carton.

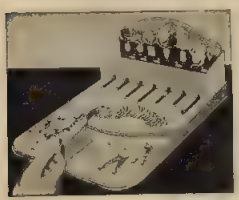
Forward Pass

Action football game. Ball is passed from spring trigger, into receiving chute and then onto playing field. Ball rolls into one of the pockets to be scored for or against the player. Players alternate in taking over the offensive until a certain number of points are made deciding the winner. All metal brightly lithographed. Each in a decorated lithographed box.

Stock No.	Mfr's No.	Lgth.	Ht.	lb. Each	Cat. List EACH
		— Inches —			
4H 4471	52	14½	7½	1	$0.35

Twenty-four in a carton.

Shooting Gallery

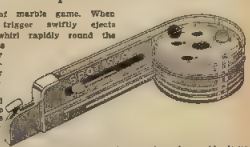


All metal brightly lithographed. Metal balls are loaded into a swivel gun which discharges one shot at a time at target holes, the balls rolling down numbered channels in the base. Ball rings when 500 score is made. One in a box.

Stock No.	Mfr's. No.	Size Ba.	lb. Doz.	Cat. List EACH
4H 4432	152	18x11¼	32	$2.20

One dozen in a carton.

Spot Shot



A new type of marble game. When pushed down, trigger swiftly ejects marbles which whirl rapidly round the surface of the disc till either settle into numbered holes or drop through center opening. Points are scored by adding the numbers of the filled holes. Magazine is automatically reloaded by dropping marbles through center hole and pushing side lever down. Set up ready for play. All metal. Attractively lithographed.

Stock No.	Mfr's. No.	Lgth. In.	lb. Doz.	Cat. List EACH
4H 4431	147	13½	12	$1.00

Two dozen in a carton.

Wolverine

Speedy Hoist

Fast moving action and new attractive design. Car carries marbles from chute to base, rising and falling as flywheel revolves. Action continues as long as marbles are fed in chute. Marbles are included. Each in a decorated box.

Stock No.	Mfr's. No.	Ht. In.	lb. Doz.	Cat. List EACH
4H 4465	54	21	25	$1 60

One dozen in a carton.

Farm Wagon

Real action is featured in the motion of the horses' legs which duplicate the gait of a farm team. Sturdy, all metal horse driver and wagon are made of durable iron. Strong, metal mover's body of horse. Each toy is brilliantly colored. Comes in its own individual, attractively designed box.

Stock No.	No.	Inches Lgth.	Wd.	Ht.	lb. Each	Cat. List EACH
4H 4468	54	10⅝	3½	5½	4	$2 00

Twelve in a carton.

Automatic Sand Loader

A new fascinating, sturdy all metal constructed colorfully lithographed toy. When sand is put into hopper at top of housing, it pours through chute into loading arm bucket. Arm then swings around in a wide arc, bucket automatically swings open and load of sand is dumped.

Stock No.	Mfr's. No.	Inches Ht.	Lgth.	Wd.	lb. Doz.	Cat. List EACH
4H 4478	21	10½	8½	3½	18	$1 16

One dozen in a carton.

Merry Masons

Operates with sand on gravity principle. Three moving men with hods on their shoulders are set on platforms up the side of the building. Man at the top dumps sand to the one below, who then dumps sand to the bottom man who in turn unloads the sand onto the platform. Beautifully lithographed.

Stock No.	Mfr's. No.	Ht. In.	Wd. In.	lb. Doz.	Cat. List EACH
4H 4477	19	16	6½	18	$1 10

One dozen in a carton.

Sulky Racer

Action toy for old and young alike. Horse has professional trotter's gait. Perfectly proportioned horse, sulky and driver made of durable plastic. Sturdy metal motor in horse. Individually boxed.

Stock No.	Mfr's. No.	Lgth. In.	lb. Doz.	Cat. List EACH
4H 4466	23	8½	9	$2.00

One dozen in a carton.

Pitch 'Em

Two all metal colored plates 11¾ inches square with rounded corners. Removable steel pegs. Includes 4 molded and metal reinforced rubber horseshoes with identification for each pair. Shoes 5¾ inches long. American horseshoe rules on cover govern play. One in a box.

Stock No.	Mfr's. No.	lb. Doz.	Cat. List EACH
4H 4435	154	$2	$1.40

One dozen in a carton.

Wolverine

Sand Sieve Set

One-piece metal sand sieve with perforated bottom, attractive band handle. Colorfully lithographed. Three different, colorful plastic moulds, measure 3½x2½ inches. Durable all metal shovel.

Stock No.	Mfr's. No.	Dia. In.	In Ctn.	lb Doz.	Cat. List EACH
4H 4476	67	11½	12	18	$0 90
4H 4479	65	9⅜	24	10	65

Sprinkling Can

Furnished in attractive color comb nation.

Stock No.	Mfr's No.	Size Qt.	lb Doz.	Cat. List EACH
4H 4401	47	2	12	$0 70

One dozen in a carton.

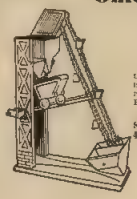
Sand Pail With Shovel

Embossed metal pail with colorful lithographed merry-go-round scene. Wire handle with with enameled wood bail. Length of all metal shovel 9¾ inches.

Stock No.	Mfr's. No.	Inches Dia.	Inches Dp.	lb Doz.	Cat. List EACH
4H 4475	16	7¼	7½	9	$0.45

Two dozen in a carton.

Ohio Art Co.



Sand Hoist

New litho looks like steel girders. By turning crank, buckets move up chain filling car from hopper. When full, car automatically runs down track and dumps. Each in display box, 11 in. high, 8 in. wide.

Stock No.	Mfr's. No.	lb Each	Cat. List EACH
4H 3216	20	1	$1.10

Twelve in a case.

7 Piece Tea Set

Set consists of: 3 cups, 2 saucers, 1 tea pot and lid, 1 tray, 4 inch diameter.

Stock No.	Mfr's No.	Oz. Each	Cat. List EACH
4H 3218	61	4½	$0.25

Seventy-two in a case.

9 Piece Tea Set

Set consists of: 2 cups, 2 saucers, 1 tea pot and lid, 2 four inch plates, 1 four color litho design tray, 5x7 inches.

Stock No.	Mfr's No.	lb Each	Cat. List EACH
4H 3219	68	⅝	$0.45

Twenty-four in a case.

15-Piece Tea Set

15 piece set. Four color lithographed design. 5x7 inch tray, 4 cups, 4 saucers, 4 plates, tea pot and lid.

Stock No.	Mfr's No.	lb Each	Cat. List EACH
4H 3220	65	1¼	$0 85

Twenty-four in a carton.

Wolverine BOATS

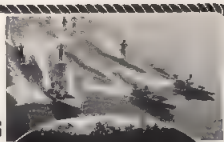
The boating public knows that for real boating pleasure it's a 'Wolverine' every time. . . . Any one of the more than 50 improved models is a winner. . . . Whether for Top Speed, All-Around Pleasure, or Fishing Boats, it's included in the 'Wolverine' line. . . . The demand for 'Wolverines' in 1950 was the largest in our history.

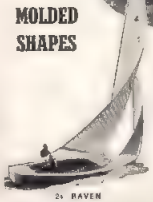
On display at NEW YORK NATIONAL BOAT SHOW opening January 12th and CHICAGO NATIONAL BOAT SHOW February 2-11 International Amphitheatre

Dealers: Write us for complete information about 'Wolverine' Boats for '51.

WAGEMAKER CO., GRAND RAPIDS, MICHIGAN

FAMOUS NATIONALLY KNOWN BOAT MAKERS USE U.S. MOLDED SHAPES





The smooth flowing hulls of such famous boats as the Raven, "The Thistle" "Wolverines "Chetek," and many others are built by U. S. Molded Shapes.

Sturdy light weight and sleek in design a U. S. Molded Shapes hull is adaptable for the needs of all types of boats. Hulls are available in many standard sizes, or can be made to meet the needs of individual specifications.

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24 RAVEN

UNITED STATES MOLDED SHAPES, INC.

640 MARKET ST., S. W. GRAND RAPIDS, MICH.

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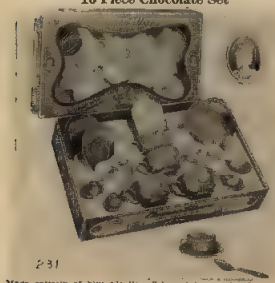
WAGEMAKER COMPANY

HARDWARE DIVISION—502 MARKET ST., GRAND RAPIDS, MICHIGAN

Plastic Dishes

Worchester

16 Piece Chocolate Set

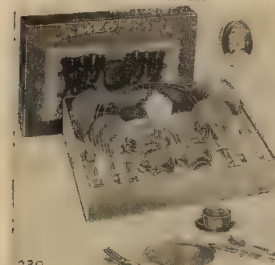


Made entirely of blue plastic. Set contains service for 4 4 cups, 4 saucers, 4 spoons, 4 napkins. Complete in window box.

Stock No.	Mfr's. No.	Box Size In.	lb Each	Cat. List EACH
4H 948	231	13¼x8½x2⅝	⅓	$1.00

Twelve in a carton.

17 Piece Tea Set



Made of blue plastic. Includes 2 cups, 2 saucers, 2 plates, 1 serving tray, 1 sugar, 1 creamer, 2 knives, 2 forks, 2 spoons, 2 napkins.

Stock No.	Mfr's. No.	Box Size In	lb Each	Cat. List EACH
4H 949	230	18x11¼x4	¾	$1.70

Twelve in a carton.

30 Piece Tea Set

Set made of plastic includes complete service for four 4 cups, saucers, plates forks, knives, spoons, napkins, 1 sugar 1 creamer.

Stock No.	Mfr's. No.	Box Size In	lb Each	Cat. List EACH
4H 950	234	20⅝x13½x3⅜	1¾	$3.10

Twelve in a carton.

17 Piece Early American Tea Set

Service for two. This lovely set brings a new concept of beauty to children's tea sets. Each major piece is decorated with an authentic Early American pattern. Consists of two each cups, saucers, large plates, knives, forks, spoons and napkins, plus one large sugar bowl, creamer and large tea pot. In a 2-piece display box.

Stock No.	Mfr's. No.	Box Size In	lb Each	Cat. List Each
4H 947	142	18x13¼x4	1¾	$2.10

Twelve in a carton.

30 Piece Early American Tea Set

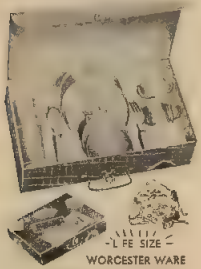
Service for four every major piece is decorated with an authentic Early American pattern. Consists of four each cups, saucers, large plates, knives, forks, spoons, and napkins, plus a sugar bowl and creamer.

Stock No.	Mfr's. No.	Box Size In.	lb Each	Cat. List Each
4H 944	143	21x13x3	2½	$3.15

Twelve in a carton.

Plastic Dishes

Picknikit with Travel Case



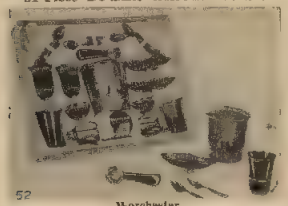
32 Piece—Service For Four

Colored unbreakable plastic set with composite service for four. Packed in a sturdy box, replica of reptile luggage.

Stock No.	Mfr's. No.	Box Size In.	lb Dozen	Fact. List EACH
4H 928	153	16¼x12½x3¼	27	$2.50

One dozen in a carton.

31 Piece De Luxe Refreshment Set



Worchester

Perfect set for a complete home ice cream party. Set consists of ice cream freezer, mechanical ice cream scoop, package of freezing mix, two tulip sundae glasses, two aberbert glasses, two banana split boats, two eight ounce soda glasses, two soda glass holders, six spoons, six straws and six napkins. Packaged in two piece display box.

Stock No.	Mfr's. No.	Box Size In.	lb Each	Cat. List Each
4H 943	52	18¼x15¼x5¼	1½	$4.05

Six in a carton.

Coca-Cola Fountain Dispenser

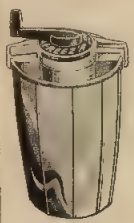
Mac Hay

It holds a standard bottle from which the contents pours when handle is pulled down. Two small plastic glasses are supplied. Bottles easily inserted. Dispenser made of brightly colored red and white plastic.

Stock No.	Dispenser In	Glasses Ht. In	lb Each	Fact. List EACH
4H 201	6x9x10	2¼	2	$3.50

Twelve in a carton.

Kiddie Freezer



Processed Plastics

Complete freezer unit. Aluminum container plastic outer container, handle, cover and agitator. Makes rich ice cream by adding crushed ice and salt around metal container and turning freezer crank for about six minutes. Each freezer complete with package of Cellins Ice Cream Mix. Individually packaged.

Stock No	Mfr's. No.	Ht. In	lb Doz	Cat. List EACH
4H 280	50	4	7	$1.20

Four dozen in a carton.

WYANDOTTE TOYS

NO. 3100 SEDAN WITH FRICTION MOTOR

Plastic body. Scale model heavy gauge steel chassis. Strong friction motor. Goes backward or forward. Rubber tired. 9" long. Silver plated bumper and grill.

Doz. $ 8.00

NO. 817 PLASTIC AMBULANCE

Has friction motor and siren. Durable plastic body with white finish and embossed lettering. No key--no winding--goes backward or forward. Rubber tires. Rear doors open. Includes plastic stretcher. Boxed

Doz. $10.80

No. 396—CLAM BUCKET SHOVEL

Made of heavy gauge steel--overall length 21"--6½" high --5" wide. Actually works--plenty of action. Baked enamel finish in assorted colors, with decals on each side. Rubber tires. Completely assembled. Individually boxed. ½ doz. in shipping container--19 lbs.

Doz. $17.00

NO. 6000 WYANDOTTE VAN TRUCKS

Die cast cab, heavy gauge steel chassis. Polished aluminum van body. Detachable cab has hinged door, seat, lithographed instrument panel, dummy headlights, reflectors and signal lights. Van has double rear doors and side door that open and close. Dual rear wheels on cab. Dual tandem individually mounted rear wheels on van. Threaded rubber tires. Cab in red baked enamel. Van with decals and name "Allied Van Lines" Each in carton.

Doz. $108.00

NO. 455 AUTO TRANSPORT

Cab made of colorful and durable plastic. Body of lithographed metal in bright colors. 10" long. Rubber tires with dual wheels on rear of cab. Includes 4 small plastic cars. Individually boxed.

Doz. $ 4.00

NO. 456 MOVING VAN

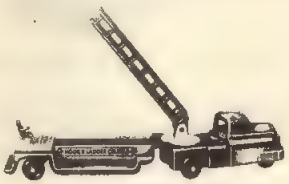
Cab made of colorful and durable plastic. Body made of lithographed metal in bright colors. 9" long. Rubber tires with dual wheels on rear of cab. Individually boxed.

Doz. $ 4.00

NO. 175 PLASTIC TRUCK AND TRAILER

Made of colorful and durable plastic. Assorted colors. 9¼" long. Stake type body with removable sides and tail gate. Rubber tires with dual wheels on rear of cab. Indiv. boxed.

Doz. $3.12



NO. 457 HOOK AND LADDER TRUCK

Cab made of colorful and durable plastic. Body made of heavy gauge steel--baked enamel finish. Colorful lithographed metal sides. Plastic aerial ladder. Plastic figure of rear driver. 11" long. Rubber tires with dual wheels on rear of cab. Individually boxed.

Doz. $4.00

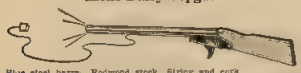
No. 352—METAL DUMP TRUCK WITH SHOVEL

Body made of heavy gauge steel. Cab made of plastic. 12½" long--5" high--4-3/8" wide. Rubber tires. Lever action dump--tail gate swings open. Includes heavy gauge steel shovel--8" long. Indiv. boxed. 1 doz. in shipping container --28 lbs.

Doz. $12.00

Daisy

Little Daisy Popgun

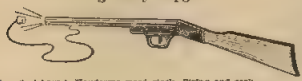


Blue steel barrel. Redwood stock. String and cork

Stock No.	Mfr's. No.	Lgth. In.	lb Each	Fact. List EACH
4H 235	70	18½	⅛	$0.45

Sixth in a carton

Long Daisy Popgun



Blue steel barrel. Handsome wood stock. String and cork.

Stock No.	Mfr's. No.	Lgth. In.	lb Each	Fact. List EACH
4H 236	66	19	⅛	$0.89

Sixty in a carton

Wyandotte Toys

Double Barrel Pop Gun

Heavy gauge steel 23 inches long. Baked enamel finish. New type, heavy realistic walnut stock. Safety Cork retaining device. Self loading break action. Two triggers, makes two loud reports. Absolutely safe. Individually boxed.

Stock No.	Mfr's. No.	Lgth. In.	lb Doz.	Cat. List EACH
4H 2316	23	23	23	$1.95

One dozen in a carton.

Pump Action Cork Gun

Pump action cork shooting pop gun. Heavy gauge steel, 20 inches long, baked enamel finish. Walnut finished handle. Gun and 6 corks packed in an attractive box.

Stock No.	Mfr's. No.	Lgth. In.	lb Doz.	Cat. List EACH
4H 2314	48	20	10	$1.00

Two dozen in a carton

Carbine Type Cork Gun

Heavy gauge steel. Black enamel finish. Walnut stock. Lever action cork shooting pop gun. Packed with five corks

Stock No.	Mfr's. No.	Lgth. In.	lb Each	Cat. List EACH
4H 2317	48	23¼	1¼	$1.15

Twelve in a carton.

Dart Gun With Darts

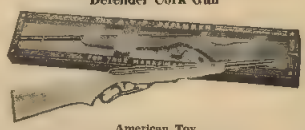
An accurate dart shooting rifle with patented feature which prevents darts from falling out. Plastic darts have rubber tips to prevent breakage. Made of steel with walnut finished stock. Rifle and 4 darts packed in an attractive box.

Stock No.	Mfr's. No.	Lgth. In.	lb Doz.	Cat. List EACH
4H 2315	39	21	12	$1.15

Two dozen in a carton

Wyandotte Toys

Defender Cork Gun



American Toy

A big gun type wood stock and metal barrel. Cocks with genuine metal lever action. Packed in an individual transparent top display box.

Stock No.	Mfr's. No.	Lgth. In.	lb Each	Fact. List EACH
4H 2942	C50	31	1¼	$2.50

Twelve in a shipping carton

Shovel

Heavy gauge steel, 27½ inches long. Metal grip. 8¼x6 inch blade. Baked enamel finish.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 136	280	12	$0.45

Two dozen in a carton.

Scoop Shovel

Made of heavy gauge steel. 12 inches long. Baked enamel red finish.

Stock No.	Mfr's. No.	lb Each	Cat. List PER 100
4H 163	109	⅛	$21.25

Seventy-two in a carton

Garden Set

Three piece garden set consisting of shovel, hoe and rake. Made of heavy gauge steel. Baked enamel finish in assorted colors. Wooden handles with lacquered finish in assorted colors. Shovel 20 inches long, blade 8½x7⅞ inches. hoe 27½ inches long, blade 3¼x5½ inches; rake 27½ in. long, blade 3¼x5¼ inches

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 187	290	22	$1.00

One dozen sets in a carton.

Hamilton

3-Piece Garden Set

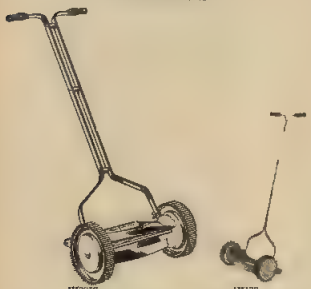
Rake—16 tooth extra heavy stamped steel head. ⅝x30 inch blue handle. Hoe—5 inch steel with reinforced ferrule. ⅝x30 inch green handle. Shovel—5½x7 inch steel, length overall 26½ inches with ⅝ inch red handle.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 250	304	28	$0.90

Three dozen in a carton.

Lawn Mowers

Lawn-Mobile



4H2958 4H130

American Toy & Furniture

A baked enamel metal lawn mower with genuine clicking, spinning blades. Has wood mahogany finish shaft and rubber grip handle. Double disc wheels 5¾ inch diameter with cleated rubber treads. Mower type 3-piece roller 30¾ inches high, 12½ inches wide.

Stock No.	Mfr's. No.	Fact. List EACH
4H 2958	500	$3.00

One dozen in a carton.

Lawn Mower

Johnson Precision Products

All metal lawn mower with wood roller metal wheels with rubber tires. 3 blade geared painted red. Painted cutter bar and side plate. Steel axle, steel handle painted and equipped with rubber grips. Similar to No. 555 but smaller.

Stock No.	Mfr's No.	lb Doz.	Cat. List EACH
4H 130	554	30	$1.15

One dozen in a carton

Lawn Mower

Johnson Precision Products

All metal lawn mower with wood roller 15 inches wide, 5 inch metal wheels with 1½ inch rubber tires. Has 9 inch, 3 blade geared reel painted yellow. Green cutter bar and side plates. Steel axle 26 inch steel handle with rubber grips. Handle painted red. 32 inch overall height.

Stock No.	Mfr's. No.	lb Doz.	Cat. List EACH
4H 140	555	36	$2.35

One-half dozen in a carton.

Power Lawn Mower

Courtland Mfg. Co.

Looks and sounds like a real power mower. Heavy all steel construction. Overall height 29½ inches. Width 12 inches. Wheels 5⅜ inches. Rubber treads 1¼ inches wide. Tubular steel handle with rubber grips. Decorated in 5 colors.

Stock No.	Mfr's No.	lb Doz.	Cat. List EACH
4H 141	25	36	$3.25

One-half dozen in a carton.

Junior Rock Drill

Alamar Industries

No winding realistic motion and sound. The slightest pressure causes the mechanism to operate. One half the size of a reproduction rock drill and simulates perfectly its sound and action. Sturdy enough to really dig. Heavy gauge steel construction 3 interchangeable tools: point tool, spade tool and tamper. Extension rod provided may be adjusted to 23 in height. Beautiful five-color lithographed decoration. Fast color gloss enamel finish on all wooden parts.

Stock No.	Size In.	lb Each	Cat. List EACH
4H 805	15	1¼	$1.65

Twenty-four in a carton

Automatic Toy Co.

Union Station—Mystery

A sturdy constructed steel toy, richly lithographed in full color. Three car diese, type train has the long running, exclusive, futurmatic motor. Train enters tunnel and emerges mysteriously from the opposite side.

Stock No.	Mfr's. No.	Size In.	lb Doz.	Cat. List EACH
4H 2543	560	14½x20x3½	45	$3.40

One dozen in a carton

Hopalong Cassidy Shooting Gallery

Has all the challenge and excitement of a real shooting gallery. The targets actually move, and there is real action in the 6-shooter mounted on the turret. Hoppy, Lucky and California on a bandit chase create a wild west atmosphere. All steel construction. Fully lithographed.

Stock No.	Mfr's. No.	Size In.	lb Doz.	Cat. List EACH
4H 2544	562	14x18x7	38	$5.40

One dozen in a carton

Magic Crossroads

Two cars with precision winding motors, race around beautifully lithographed modern crossroads. Cars alternately stop and go preventing collision.

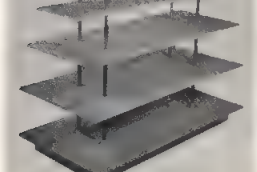
Stock No.	Mfr's. No.	Box Size In.	lb Each	Cat. List EACH
4H 2540	570	18½x9½	1½	$2.00

Twenty-four in a carton

These are the Howdy Doody character hand puppets, manufactured by the Jay V. Zimmerman Co., 320 N. Leonard Ave., St. Louis, Mo. Each character has his distinctive costume complete with accessory trim. Heads are made of "just-like-real-skin" Vinylite, garments of colorfast, pre-shrunk material. They retail for 98 cents.

NEW LOW-COST STORE FIXTURE

The Add Sales Company is introducing a new low cost store fixture for mass display of all toys regardless of size or shape. Toy dealers who have been testing Flexo-Space find a notable increase in Self Service and Impulse Buying. Customers buy more because they see more. Flexo-Space displays 400% more toys than the conventional flat top counter, yet takes only 12½ sq. ft. of floor space. Savings of approximately 75% in fixture cost are possible. The low priced Flexo-Space is strong, durable and has adjustable ply wood shelves, with steel tubular supports. Neutral finish. Shipped K D. It takes only five minutes to set up, and be ready to sell. Free catalog page on the new low priced tested and proved Flexo-Space is available from Add Sales Company 728 Commercial Street, Manitowoc, Wisconsin.



BANNER PLASTICS OFFERS NEW TOY TABLEWARE

The Banner Plastics Corp., 80 Beckwith Ave., Paterson, N. J., is offering a new set of Banner Metaltone tableware designed to please the very young lady by its resemblance to her mother's own tableware. There are sixteen pieces in the set, four each of knives, forks, and spoons, a cake server, a butter knife, and salt and pepper shakers.

The plastic chest, designed by E. M. Pressner, president of the company, has pleased more than the customers for the judges of the Variety Merchandiser packaging contest gave it an award. This is the second prize which the firm has won for its packaging. The first honor, given a year ago, was won by the Wobbly Choo Choo packaging.

REVELL OPENS FIFTH AVE. BLDG. SHOWROOM

Keeping pace with their progress as suppliers of action toys in the plastic field, Revell Toys, Inc., have taken a permanent showroom on the 14th floor of the Fifth Avenue Building. Maurice Rifkin, Revell's New York representative, will be in charge of the new showroom.

Revell now manufactures a complete line of Action Pull Toys, miniature "Vintage Vehicles" plastic autos in both assembled and kit form, Circus Sets and miscellaneous mechanical toys.

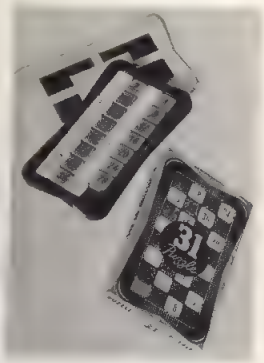
Buyers will now have an opportunity to examine the company's full line of toys displayed to their best advantage in this attractively appointed new showroom.

The Revell Circus Sets were featured for national publicity in leading consumer magazines last year, and comprise one of the largest line of Circus items and Sets for children.

The company reports excellent acceptance of its line at the recent Toy Fair, during which Lewis H. Glaser, aggressive young Revell president, was appointed to the Legal Committee of the Toy Manufacturers of the U S A.

NEW "31" PUZZLE BY ARCHER

To puzzle addicts . . . figure filberts . . . and just plain men and women, as well as boys and girls . . . the "31" Puzzle is a challeiging delight! Sometimes exasperating, too, but always makes the hours disappear like minutes. The "31" is streamlined plastic . . . polished red-black-ivory combination; 31 sliding squares. Stamped 22K gold. Two-color plastic cover with instruction card and illustrated folder. Each in three-color box that can be used as a gift mailer. Packed one dozen in three-color counter display, with window streamer. Archer Plastics, Inc., 220 Fifth Avenue, N. Y., report a wide acceptance of this item by toy, game, tobacco, stationery and sporting goods outlets!



Get in on the Howdy Doody* Fad!

MEET ME

AND THE REST OF THE
HOWDY DOODY* GANG IN

ROOM 728

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"ZANY"* ®T.M. REG

CHARACTER PUPPETS

TOY LINE

Featuring — Full Sized
Exclusive HAND PUPPETS

TO RETAIL FOR
VOLUME SALES

69¢ and **98¢**

Made of
JUST-LIKE-REAL-SKIN
VINYLITE

16 Characters Ready now for Immediate Delivery

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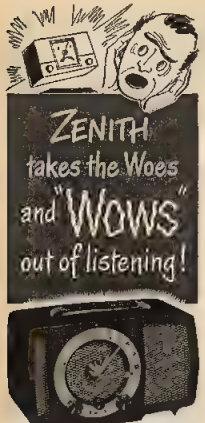

Now Zenith® "SUPER-TRIUMPH" with Super-Sensitive FM plus Long-Distance AM!

You've had your last tussle with howling radio static and interference once you tune in this terrific performer! Reaching far beyond the usual FM range, it brings you news, sports, music and market reports where AM and many FM sets are practically useless. All beautifully sharp and clear . . . day or night, summer or winter—even during the worst storms!

Tone too, is far richer in this stunning beauty—thanks to a special Zenith-built speaker. Superior Zenith tuning circuits prevent fading, drifting. And to *double* your listening pleasure, there's Zenith's famous Long-Distance® AM reception!

Best of all, you'll need no aerial in primary signal areas. Zenith's built-in FM antenna and AM Wavemagnet® let you plug in and play! There's a giant-size dial for easy tuning . . . Hero-Grip handle for easy carrying. Handsome mahogany plastic cabinet. See it now at your Zenith Radio and Television dealer's! Only $64.95*

*Price Subject to Change Without Notice.

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Over 20 Years of 'Know-How' in Radio-only Exclusively
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conductor was pulling Fatso and Dan out of their seats.

"Smart alecks, eh?" he barked angrily. "Well, we got a way of handling dead beats on this line. You just pile off the train and help them load cattle!"

They went by under my window. Fatso yelled something at me I couldn't hear, and Dan shook his fist. I sat in upholstered ease, laughing at them, and later when most of the passengers got off to stretch their legs, I got off, too. Down the line I could see Fatso and Dan working in the choking dust, prodding cattle into the loading chute.

When we got back on the train I saw them heading for me, and it wasn't one for all and all for one any more. It would have been all right if the sheriff hadn't moved to another seat just then, but he did, and I had to do something quick. I did it. I went to Miss Leora's side and asked her if she would sit with me because I had something very important to tell her.

She said: "Why, of course, Bud," and moved up to my seat. She said it was too bad Dan and Fatso tried to beat their way, and I said yes, it sure was—they ought to have known better.

THE train started again, and Fatso and Dan didn't dare come around to make trouble for me while Miss Leora was there. Only I had to keep her there, and that was a problem.

"What was it you wanted to tell me, Bud?" she asked.

"Well," I said, groping desperately, "it's—it's about Matt. I mean he—well, he and I got to talking, and . . ."

I could see the shine in her eyes, then. She said: "Yes, Bud—go on."

Up to then. I didn't know what I was going to say, but out of the corner of my eye I could see Fatso and Dan watching me like a couple of sore-headed hawks. So I took a leaf out of the Courtship of Miles Standish.

"Matt wants you to marry him," I blurted. "He was afraid to ask you, himself—afraid that you'd say no."

"Afraid I'd say no!" Miss Leora repeated softly. "Afraid I'd say no! Oh, Bud!"

She squeezed my arm, and I saw it wasn't working the same way it worked for John Alden, and that Miss Leora wasn't going to wait for me. But she sat with me the rest of the way, and she was with me on the stage.

FURTHERMORE, two days later she was at our house talking to Mama about wedding plans when Matt came striding up the walk with that little swagger. I had been sticking around the house pretty close, and he started laughing fit to kill when he saw me on the front veranda.

"Ha ha!" he roared. "Got thrown off the train, didn't you? Let that be a lesson to you. Don't ever try to beat your way anywhere—always pay your way! Understand?"

"Ha ha!" I said, smart-alecky, "look at this. It's the same two bits, and I rode free. You ain't so smart."

"You mean you—" Matt exclaimed.

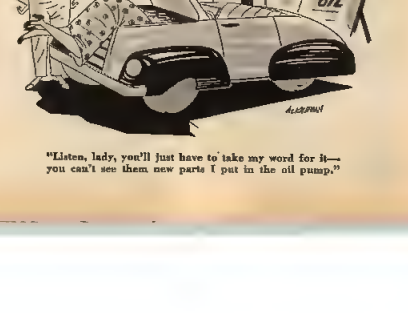
He didn't get any farther, because Miss Leora came running out on the veranda and threw her arms around his neck. She said, "Oh, darling, darling, of course I'll marry you! Mother and I have everything arranged!"

He just stood there, puzzled and startled, and maybe he was too surprised to talk. I got up real quick and started to leave—but turned around and made a face at him.

He scowled at me over Miss Leora's shoulder, and then he kissed her and looked back at me and smiled. He said: "I was going to get around to this all the time, Bud. Much obliged!"

I could see he was pretty happy about it, because he turned right back to Miss Leora. I went on out in the yard and around the corner. Fatso and Dan were waiting for me there, and I knew I might as well get it over with.

The End



"Listen, lady, you'll just have to take my word for it—you can't see them new parts I put in the oil pump."

Commercial airliner, Air Force transport or private carrier; safety, efficiency and economy are vital factors.

ENGINE OVERHAUL *is one of PAC's major operations. We pull 'em down and put 'em back quickly and efficiently.*

AIRFRAME OVERHAUL *is another important PAC function. For example, a large number of F-51's and C-54's are in process at two of our six branch locations.*

MANUFACTURING *accounts for an ever increasing portion of total effort. PAC's pressurization systems for high altitude aircraft are standard equipment on many fighter and transport craft.*

PARTS DISTRIBUTION *for major parts manufacturers is handled by PAC throughout the world. Pratt & Whitney, for example, appointed PAC as their first parts distributor.*

THE STRUCTURE of Pacific Airmotive activity is composed of four basic divisions, Engine Overhaul, Airframe Overhaul, Manufacturing and Parts Distribution. Each division is under the supervision of, and operated by, the most highly skilled and experienced men. Twenty-year service is not unusual among PAC craftsmen. The rapid growth the entire PAC organization has shown during the past years proves that its services and facilities are highly regarded by the entire aircraft industry. Quality of PAC engine overhaul has repeatedly extended the time between overhauls ... increasing efficiency and profits for many Pacific Airmotive clients.

And, of course, PAC is the first and largest distributor of Pratt & Whitney Engine parts in the world! Also, scores of other leading parts manufacturers are represented by Pacific Airmotive. PAC activity in the airframe overhaul field over a period of many years has resulted in facilities to handle aircraft from the smallest private ship to the large troop carriers. An example is the vast reconversion and modification program on F-51 fighters and C-54 military cargo carriers undertaken for the Air Force. PAC manufactured pressurization equipment is found as an integral part in 90% of all modern fighters and pressurized commercial transport craft.

★

It's great to work and live in sunny California. Engineers, and many categories of skilled aircraft workers are needed by PAC ... drop us a line.

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Executive Offices: BURBANK, CALIFORNIA

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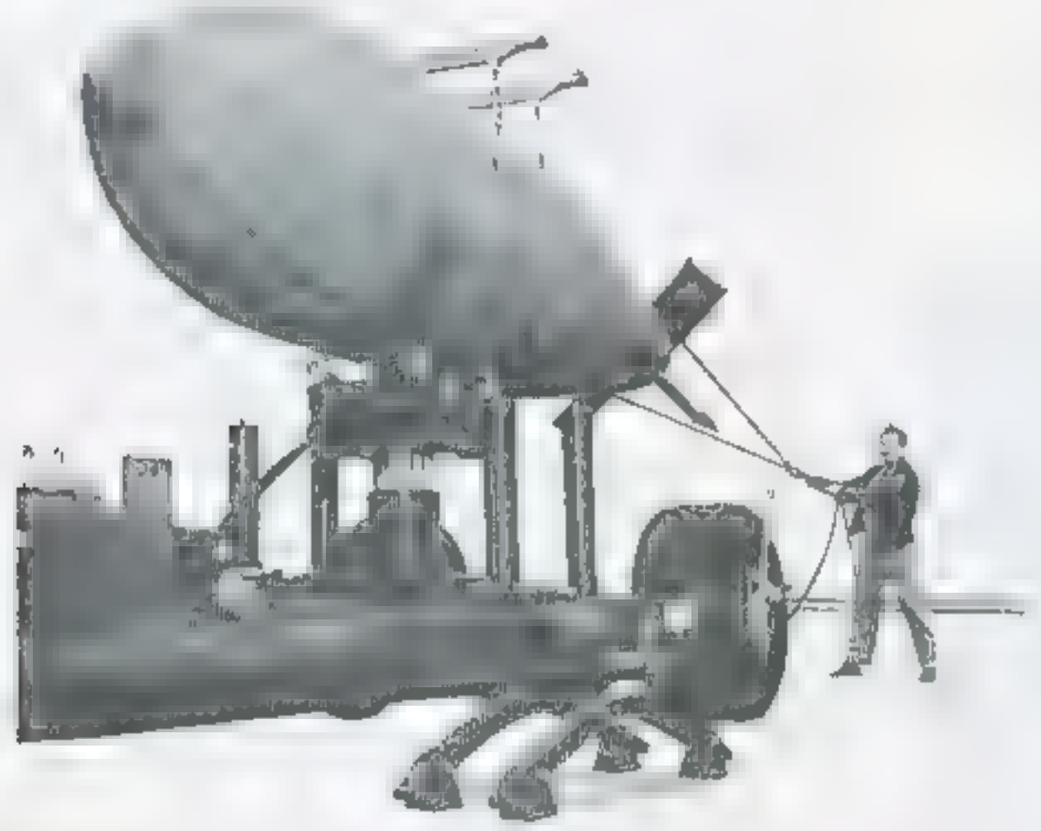
Kansas City, Kansas • Linden, New Jersey

Flying an early Wright pusher plane, Lt. M. S. Crissy and Phillip O. Parmalee took off at San Francisco with the first explosive ever to be dropped from a U. S. airplane.

U. S. Army First Bomb Drop . . . January 1911



Hydraulic bomb lift, designed for the Air Force and built by Boeing, rests on a wheeled carriage which can be used to transport the bomb to the ramp and load it into the bay of the bomber. One man, operating the lift, can raise a 25-ton bomb 12½ feet, roll it 360° in either direction, shift it 4" either side of center and 10" fore or aft, and tilt it 6° up or down.

THE PICTURES tell the story of the development of the bomb, as a weapon of war, from the small hand-grenade stage (1911) to a giant explosive so large, so heavy, that it requires the use of a hydraulic lift to load it into the bay of the plane.

In the intervening years, our entire aviation industry has progressed with astonishing rapidity, and the makers of fuels and lubricants have kept pace. Phillips Petroleum Company, pioneer in the field of special aviation gasolines and lubricants, has long been one of the country's largest suppliers of aviation fuels for commercial and military use. And now Phillips is ready with new fuels for turbo-props and jets in addition to its tremendous capacity for producing 115/145 grade aviation gasoline. The Aviation Department, Phillips Petroleum Company, Bartlesville, Oklahoma.

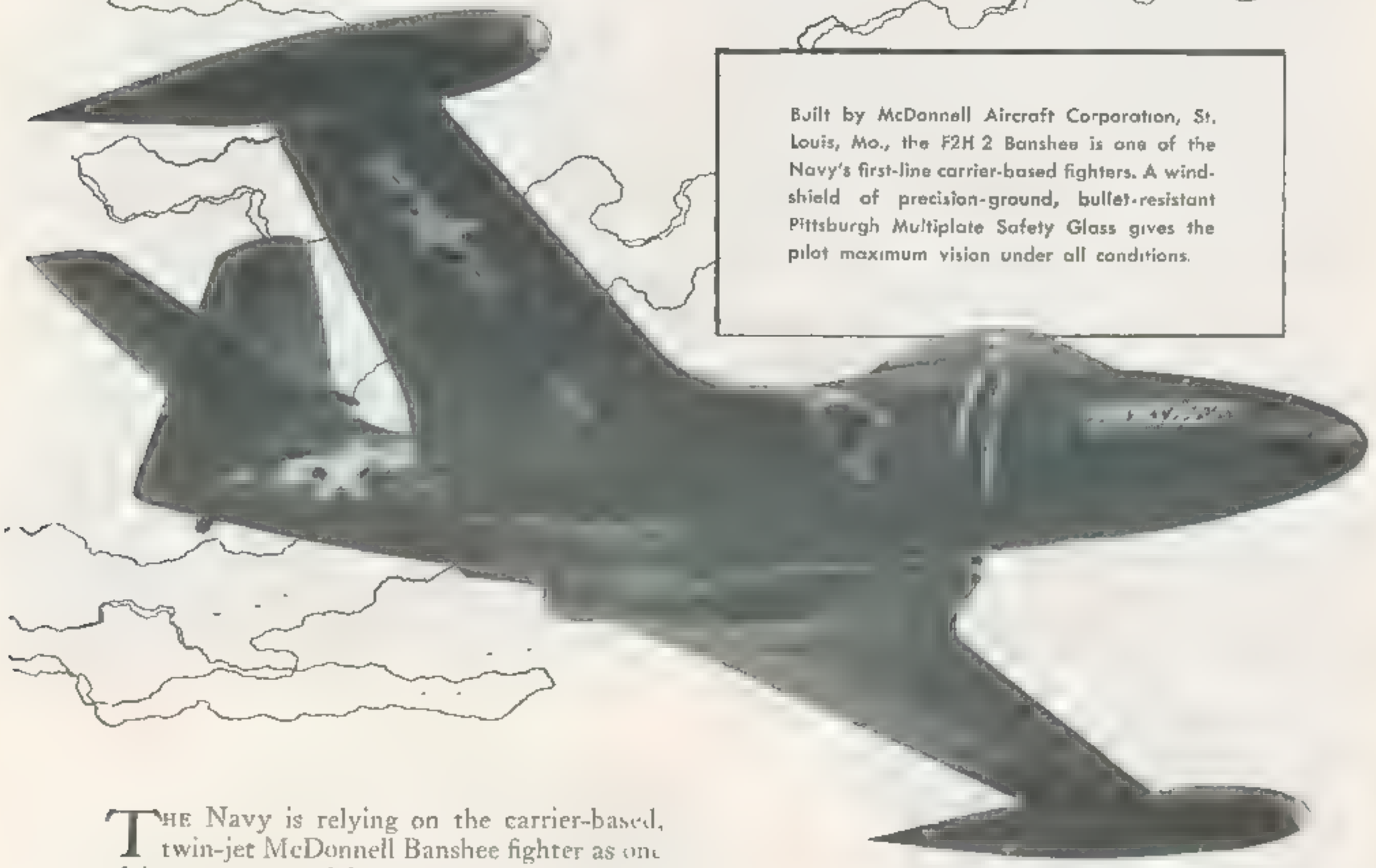
Phillips 66

AVIATION PRODUCTS

On McDonnell's twin-jet Banshee fighter-

Safety Glass

BY PITTSBURGH



Built by McDonnell Aircraft Corporation, St. Louis, Mo., the F2H 2 Banshee is one of the Navy's first-line carrier-based fighters. A windshield of precision-ground, bullet-resistant Pittsburgh Multiplate Safety Glass gives the pilot maximum vision under all conditions.

The Navy is relying on the carrier-based, twin-jet McDonnell Banshee fighter as one of its most powerful counter-weapons against all types of high-altitude bombers. For maximum vision under all lighting conditions, this 600-mile-plus fighter is equipped with a windshield of Pittsburgh Multiplate Safety Glass.

The windshield is precision-ground, bullet-resistant flat glass of gun-sight reflector type. It is designed for maximum possible light transmission under all conditions — dusk or dawn, daylight or even night fighting.

The Banshee is only one of today's modern aircraft—military and commercial—that depends on Pittsburgh for observation and sighting panels. Designers know they can count on the research facilities, manufacturing equipment and practical know-how of Pittsburgh for assistance in solving their toughest problems.

When you have problems involving Safety Glass and glazing methods for airplanes, bring them to us. Pittsburgh Plate Glass Company, Room 2175-1, Grant Building, Pittsburgh 19, Pa.

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PITTSBURGH PLATE GLASS COMPANY

Androscoggin County

Small in area, but important for its industries, agriculture and convenience of recreational facilities, Androscoggin County is located in the inland heart of South Central Maine.

Its twin cities, Lewiston and Auburn, on opposite banks of the Androscoggin River, form a commercial population and travel center for a wide area in that section of the State that makes them second only to Greater Portland in size and economic importance. The twin cities have been called the "industrial heart" of Maine, for they contain the greatest concentration of shoe and textile mills in the State. In normal years these two activities rank second and third, respectively in the State's industrial economy.

Auburn, on the west bank of the river, is the shire town of the county and fourth largest city in the State. It has nearly a score of shoe factories, has extensive residential sections with many fine old homes and stately mansions and is the trading center for a rich farming area. It is a busy city with outstanding schools, an excellent public library founded by Andrew Carnegie, and an exemplary civic consciousness manifested by such citizens' groups as an active Chamber of Commerce, service clubs, agricultural organizations and others.

The Androscoggin Historical Society, which houses its reminders of pioneers in the courthouse at Auburn, has been established for many years and is steadily increasing its collection of valuable historical material. Auburn also is a supply center for sports goods of all kinds and is a favorite stopping and shopping place for many out-of-state sportsmen on their way to the better known hunting and fishing sections.

Lewiston cotton and woolen textile mills give employment to thousands of people and provide a payroll on which the industrial prosperity of the city depends. It is the second largest city in Maine and is adequately equipped with good hotels, theaters, excellent department stores and other facilities usually found in a large commercial and industrial center.

Lewiston also is the home of Bates College, with an enrollment in normal years of nearly 700 students, and with a large registration for summer school courses. For more than three-quarters of a century Bates has been known best for the educators it has trained for service all over the world. Nearly half of its alumni are in the teaching profession and it ranks first among New England Colleges in the number of its graduates who are principals of New England secondary schools.

(Continued on Page 76)

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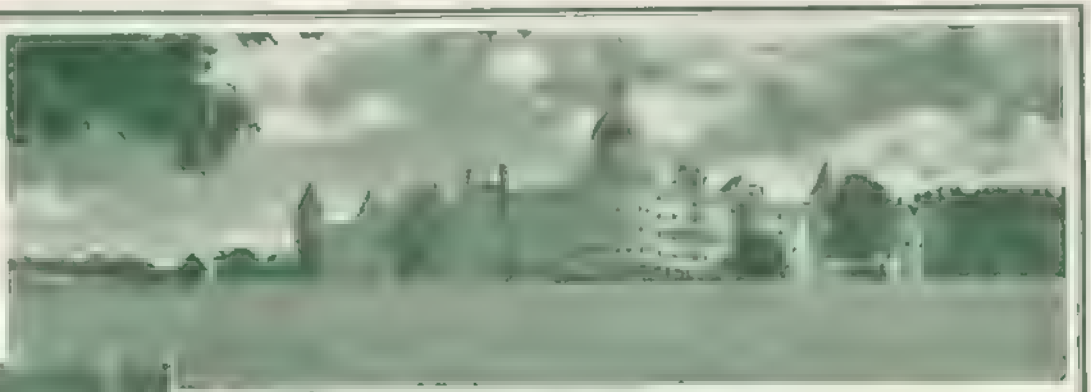

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"A real place for real people"

W. HENRY TRUE, Prop.

The Pickford Camps and Lodge

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24 MODERN UP-TO-DATE CAMPS Central Dining Hall

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Completely equipped for light housekeeping, hot and cold water, showers, gas for cooking, fireplace. Boats, motors and guides Spring and fall fishing. Meals served hunting parties.

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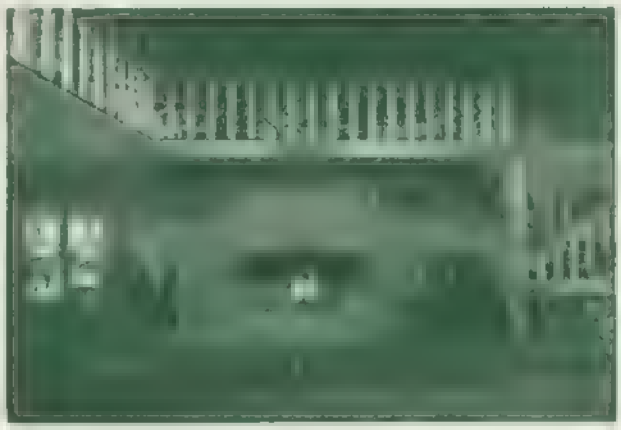

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Boats and canoes for free use of guests

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Railroad and Bus Service to Hotel

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for example,
DOUGLAS SKYRAIDERS...
on the final assembly line at the Douglas-Navy plant at El Segundo, California

A principal offensive arm of the Navy's carrier fleet, the Douglas "AD" Skyraiders shown above have made a tremendous name for themselves in Korea. From the final assembly line at the Douglas-Navy plant at El Segundo, these Skyraiders will soon be on their way to join the 1000 or more now in service.

There is Reynolds Aluminum in almost every airplane that flies today ▪ The aircraft industry has learned to depend on Reynolds for consistently high quality and technical aid in working out problems of development and engineering. Reynolds completely interrelated operations, from the mining of raw bauxite to the delivery of aluminum in all its forms, assures dependability of supply. And remember, as the aircraft industry expands and grows, Reynolds Aluminum keeps pace in supplying and developing *Tomorrow's Main Metal*

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Reynolds Aluminum is on the job with training aids to help you improve your training program—add to your own know-how. The complete library of Reynolds Technical Books on aluminum design and fabrication is available to you for the asking. Just send your request on a business letterhead, otherwise the price of each book is one dollar

- ☐ A-B-C's of Aluminum (From mine to finished products)
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- ☐ Aluminum Structural Design
- ☐ Designing with Aluminum Extrusions
- ☐ Fastening Methods for Aluminum
- ☐ Finishes for Aluminum
- ☐ Forming Aluminum
- ☐ Heat Treating Aluminum Alloys
- ☐ Machining Aluminum Alloys
- ☐ Metals Weight Slide Rule
- ☐ Welding Aluminum

And to instruct large groups of personnel ... to put more interest in your training program ... get these 16mm, color-sound films from the Reynolds Film Service.

☐ **SHAPE OF THINGS TO COME**
Interesting description of the aluminum extrusion process and the design opportunities it provides. Running time 30 minutes

☐ **TALE OF THE POWDERED PIG**
Developments in aluminum powders and pastes including their application in protective and decorative coatings. Running time 22 minutes

☐ **PIGS AND PROGRESS**
The complete story of aluminum from mine to finished products. Covers all forms of aluminum. Running time 22 minutes

Write to Reynolds Metals Company, 2559 South Third Street, Louisville 1, Kentucky

REYNOLDS METALS

REYNOLDS ALUMINUM

MODERN DESIGN HAS ALUMINUM IN MIND

The F-84-E, an improved version of the F-84 Thunderjet, is shown above on the final assembly line at the Republic plant at Farmingdale, Long Island, New York. With increased power derived from its turbo-jet engine, this latest model Thunderjet is the result of operational experiences in the field translated into improved features by Republic engineers.

There is Reynolds Aluminum in almost every airplane that flies today

The aircraft industry has learned to depend on Reynolds for consistently high quality and technical aid in working out problems of development and engineering. Reynolds completely interrelated operations from the mining of raw bauxite to the delivery of aluminum in all its forms, assures dependability of supply. And *remember*, as the aircraft industry expands and grows, Reynolds Aluminum keeps pace in supplying and developing "*Tomorrow's Main Metal*".

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Reynolds Aluminum is on the job with literature and movies to help you with your personnel training program—add to your own know-how. The complete library of Reynolds Technical Books on aluminum design and fabrication is available to you for the asking. Please send your request on a business letterhead, otherwise the price of each book is one dollar.

- A B C s of Aluminum (from mine to finished products)
- Aluminum Data Book (Aluminum Alloys and Mill Products)
- Aluminum Structural Design
- Designing with Aluminum Extrusions
- Fastening Methods for Aluminum
- Finishes for Aluminum
- Forming Aluminum (about Dec. 1)
- Heat Treating Aluminum Alloys
- Machining Aluminum Alloys
- Metals Weight Slide Rule
- Welding Aluminum

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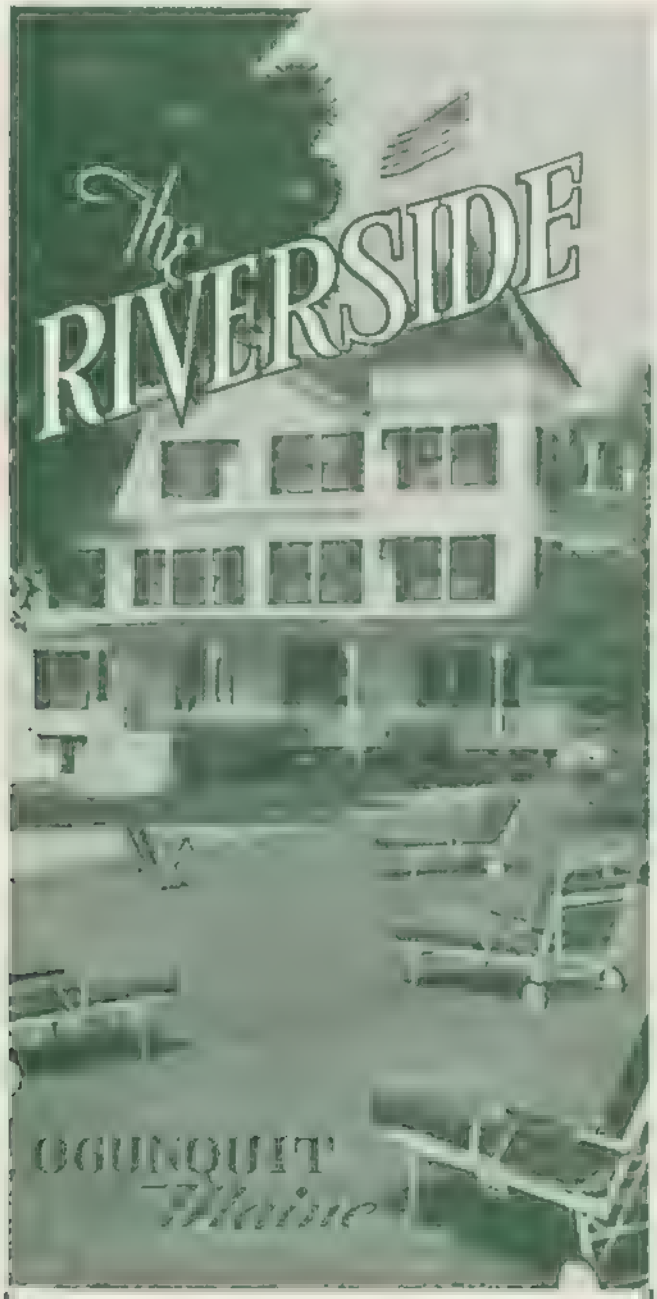

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Sagadahoc County

Sagadahoc County, next eastward along the coast from Cumberland County, is the smallest in area in the State, yet it is somewhat typical of Maine coastal counties from here on eastward, which feature rugged peninsulas jutting far out into the coastal sea area, with many inlets and innumerable small bays and harbors where yachts and other motor and sailing craft find snug haven.

The central portion of Sagadahoc County contains Merrymeeting Bay, so-named because it is the junction of the Kennebec, Androscoggin, Cathance, Abagadassett and Eastern Rivers. It is world-famous for its duck hunting and water-fowling.

Along the shores of Merrymeeting Bay are hundreds of cottages, farms and summer homes where vacationers and duck hunters annually visit for sport and relaxation. West and north of the Bay are the farming towns and shopping centers of Topsham, Bowdoin, Bowdoinham and Richmond and the industrial town of Pejepscot, with a large pulp and paper mill. Bowdoinham, in the center of the Merrymeeting Bay Area, is a popular rendezvous for sportsmen and a trading center. It is also the scene of a new winter sports development.

The City of Bath, further south along the Kennebec, is famous as the site of the Bath Iron Works, whose destroyers rate among the best in the service of the U. S. Navy. Famous yachts, fishing boats and other craft built in peacetime years have made the name of this company famous throughout the shipbuilding world. Bath is also a commercial and business center for the county and roads lead from it down to the many resorts and vacation centers along the coast on both sides of the mouth of the Kennebec.

Route 209 below Bath passes through Winnegance, a suburb of Bath, where a tide mill until recent years was used to power a lumber mill. Phippsburg is a village center for a picturesque area of rugged coast, sand dunes and wooded knolls. From it lead the roads to the Sebasco Estates, a widely-known modern coastal resort; West Point, Small Point, Parker Head and Popham Beach.

This whole area is a favorite picnicking and vacationing territory, rich in early American history and before that a favorite summering place of the Indians, who left many of their relics scattered around. Boating, bathing, and deep sea fishing combine with golfing, riding and other land sports to make this section an attractive resort area. The remnants of old forts and the oldest of American settlements at the mouth of the Kennebec add to the historic interest of the region.

From Woolwich, across the river from Bath, Route 127 runs down across a group of heavily wooded islands forming the eastern side of the mouth of the Kennebec and with Sheepscot Bay and River on its easterly side. Here are Arrowsic, Georgetown, Five Islands and Robinhood, small farming and fishing villages with many cottages and shore outing spots where small boats put in from the neighboring coastal region.

At Georgetown is the new Reid State Park, which is open to limited use. Major features are picnic area, Mile Beach and a six-acre impounded salt water lagoon, suitable for bathing and canoeing, in the Griffith's Head area.

Phipps Point, overlooking beautiful Hockamock Bay, is the site of numerous fine summer homes. It was the birthplace of the great adventurer for whom it was named. Phipps was at one time Provincial Governor and later was the first American knighted at the English court in recognition for having brought treasure taken from old Spanish galleons sunk in the Caribbean [illegible].

Many small islands, some of them privately-owned, lie off this section of the coast and numerous artists and sculptors of note annually summer in this region. Five Islands has an excellent harbor and has been the frequent rendezvous of the Boston and other yacht clubs. Bay Point and MacMahan Island also are favorites of summer visitors.

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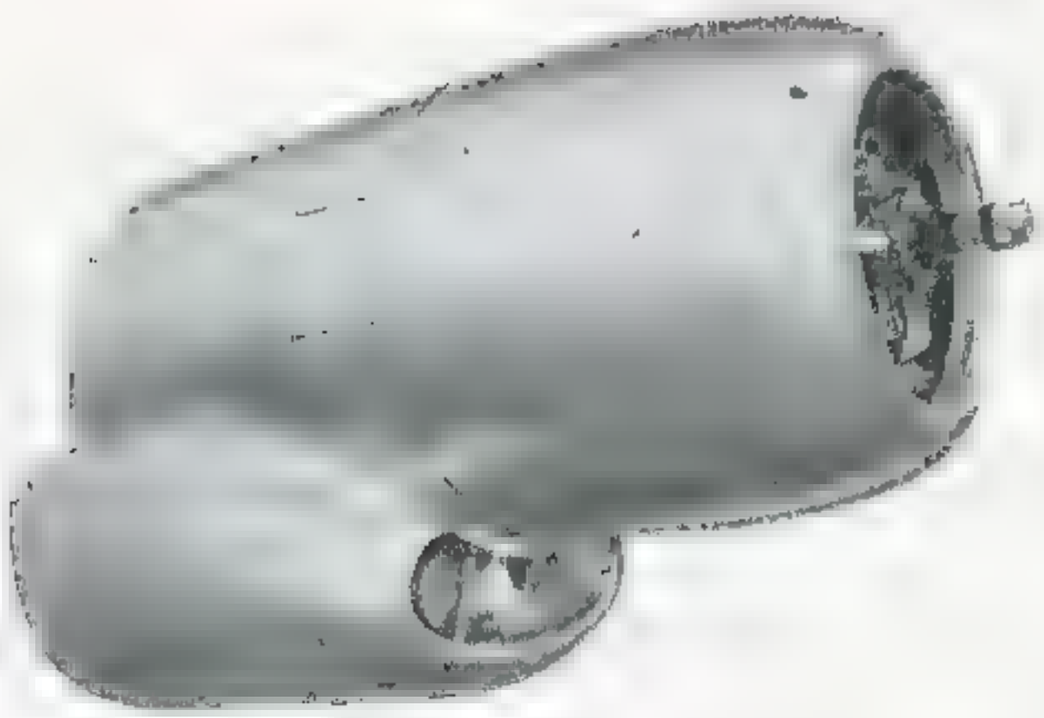

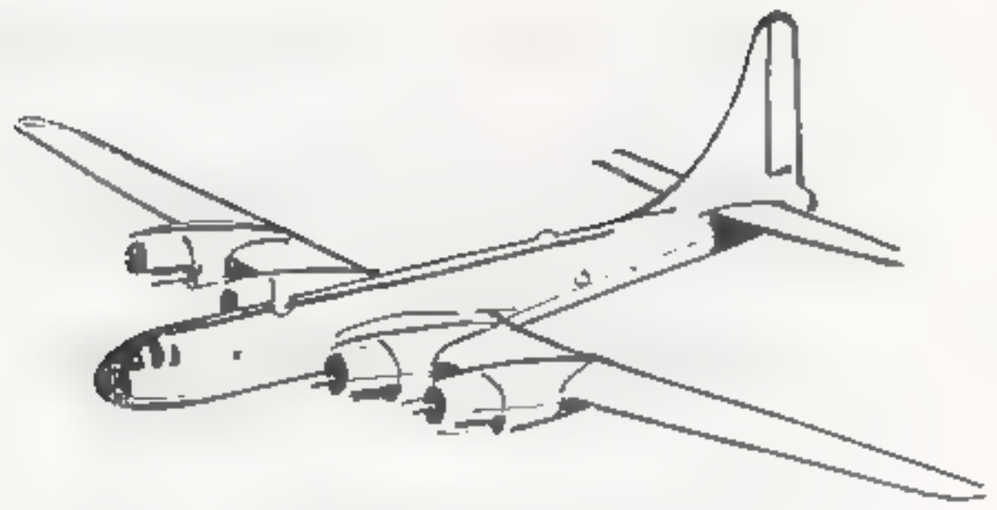

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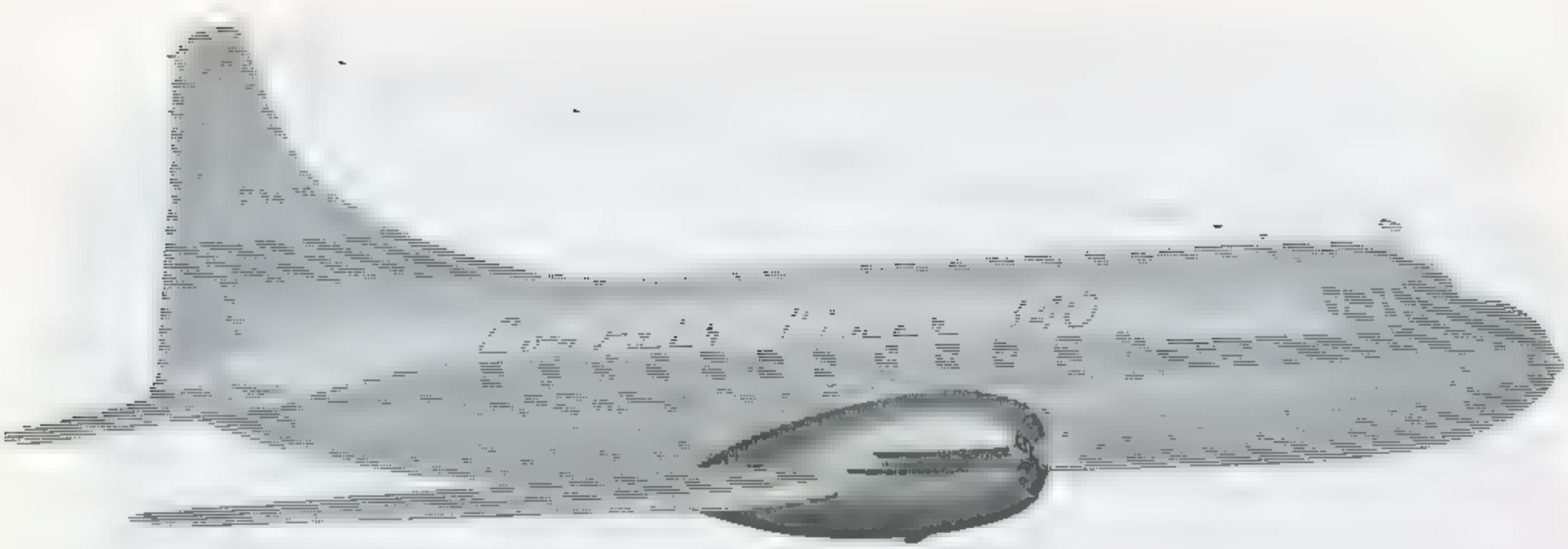

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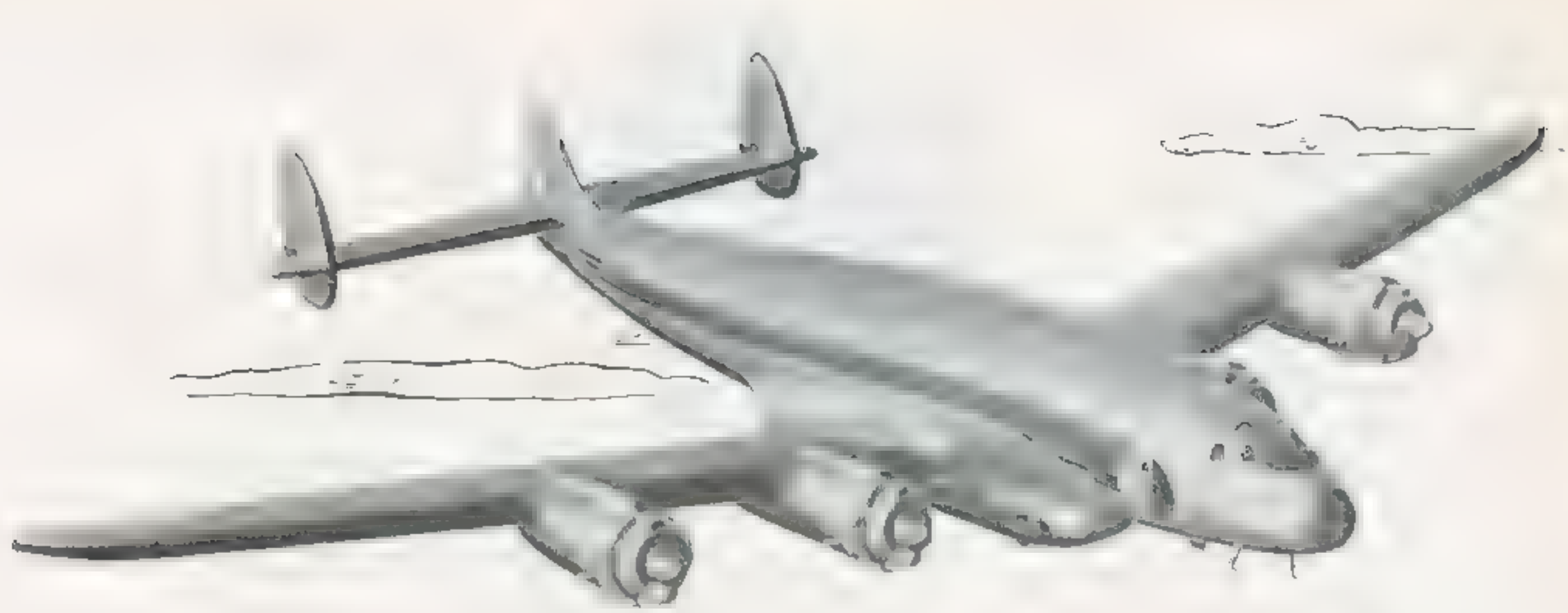

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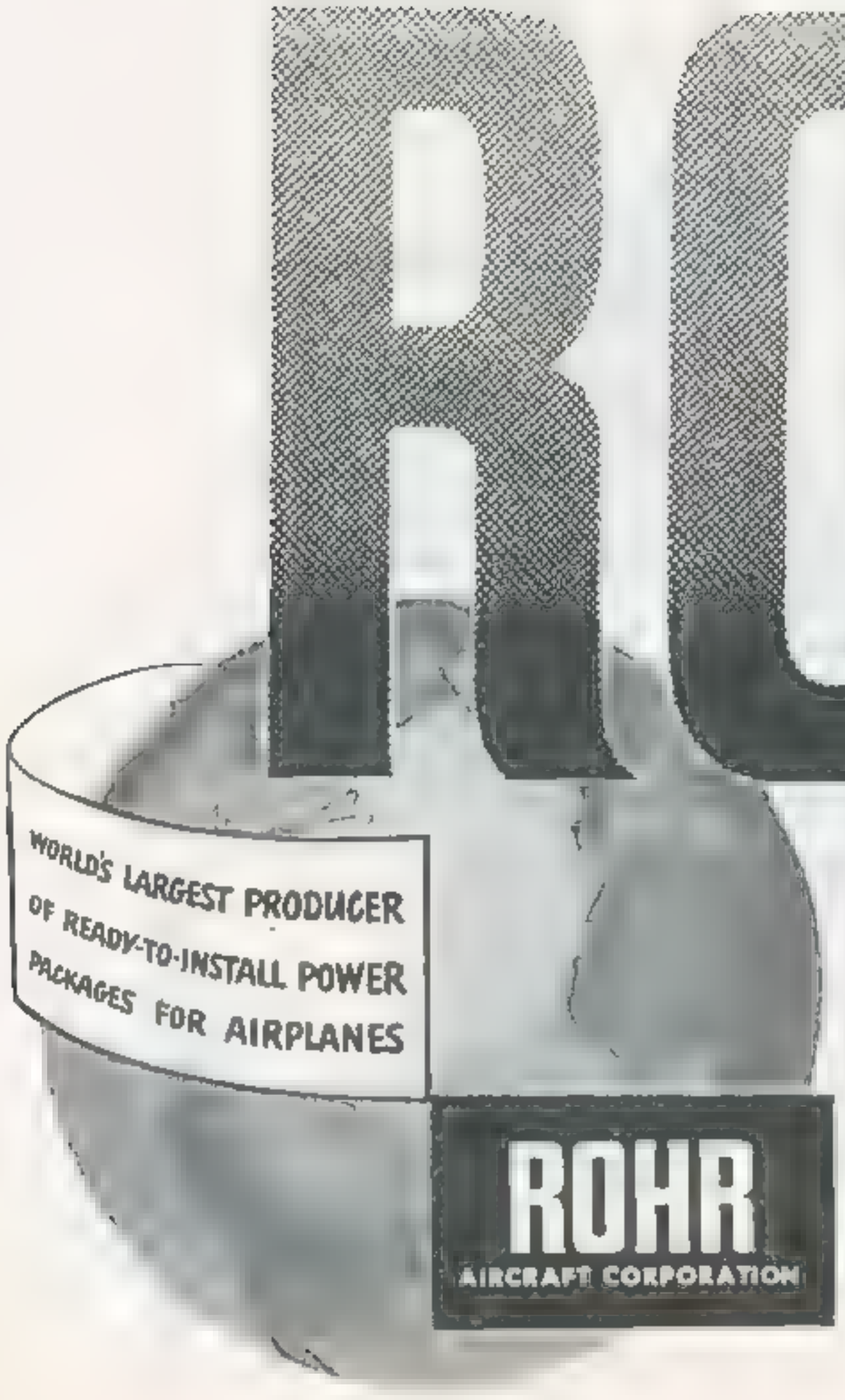

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extensively used to conserve space and simplify the production of the unit. The circuits are printed on steatite or silicone-impregnated fiber-glass.

The entire unit is hermetically sealed to guard against moisture damage and contamination; it further eliminates protective coatings for the components. This sealing presents a heating problem which has been handled through the use of high-temperature components to withstand the temperature inside the case.

Housing is sealed to the front panel (which incidentally acts as a chassis for the receiver) by a soldered copper band. This band can be removed with a slotted key of the coffee-can type for servicing the set. Nitrogen replaces the air in the sealed unit to protect against oxidation.

▶**Design Problem**—Sealing the bushings of the two control shafts which would have to project through the front of the panel presented quite a design problem. To solve it, the Bureau used commercial rotary seals of the wobbling-bellows type. These were too large to be housed within the unit contours, and therefore were placed in the large control knobs themselves.

Tuning the receiver also presented engineering difficulties. It was desired to get a straight-line tuning characteristic (straight-line means that the frequency is proportional to the control angle) and this meant a variable-pitch screw was necessary to drive the slugs in and out of radio-frequency coils. The screws were made on a standard lathe fitted with a linear cam devised by Robert O. Stone, a member of the Bureau's staff.

Tuning slugs are made from newly developed ferrite base materials which are more stable at high temperatures than powdered-iron cores. Anticipating that production control of these materials might be difficult, the tuner was equipped with mechanical means to compensate for nonuniformity of the cores.

▶**Components**—The Intermediate-frequency transformers are only ½ x ½ x 1⅜ in. They are double-tuned and have permeability-tuned inductors. Resonating capacitors are washer-shaped and mounted in the ends of the transformers. Radio-frequency coil structures resemble those of the IF transformers, and similar parts can be used for making both.

Large capacitors are of the tantalum electrolytic type for high-temperature application. Others are of glass dielectric type. Insulating materials are steatite and silicone-impregnated fiberglass. Audio-frequency transformers and chokes use high-temperature insulators, ceramic-coated wire and are impregnated with silicone varnish.

The combination of hermetic sealing and panel size kept the number of external controls to two. And since one of these was required for tuning, the other had to be designed to fill the functions of gain control and on-off switch for power and the beat-frequency oscillator. This was done in a special compact switch designed to be produced entirely from stampings.

The gain control employs a high-temperature adhesive-tape resistor which was specially developed by NBS. The tape is wrapped around a tiny glass cylinder (⅛ in. long by ½ in. diameter) on which 120 axial lines of silver paint have been deposited. These lines form commutator segments. The projecting ends of these silver lines contact a brush which is made out of precious metal.

In addition to its prospective usefulness in aircraft, the receiver has served as a focal point for the development of components and techniques. Many of the basic units developed for this receiver, engineered as they were to withstand rigorous size and temperature requirements, should find application in equipment of more conventional size and design. Aside from the space-saving advantages, the Bureau feels that these tiny components may well afford improved permanence and reliability.

Development of the subminiature radio-range unit was under the direction of Gustave Shapiro, of NBS.

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The performance of these Sikorsky helicopters has been so outstanding that the Marine Corps has ordered greatly increased quantities of the latest 10-place HRS model. In addition Sikorsky has just been declared a winner of the recent Marine Corps design competition for a new type assault helicopter with far-reaching possibilities.

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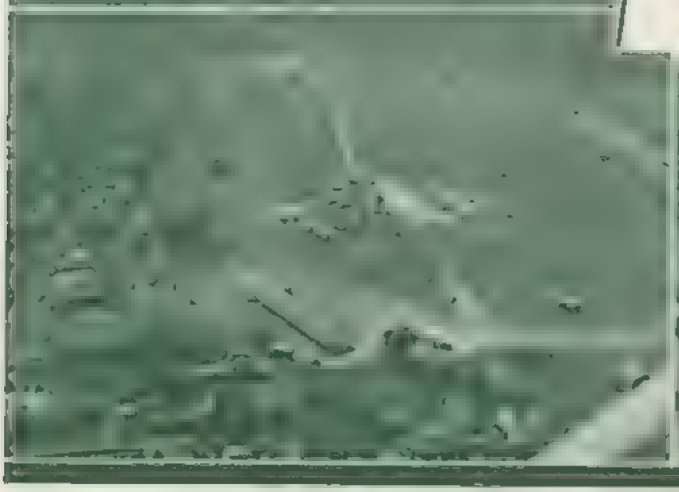

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Piscataquis County

Piscataquis, the "county of lakes," is the second largest county in Maine. Within its 4,205 square miles are 252,872 acres of water, almost twice as much as any other Maine county.

Located in the north central part of Maine, it contains four outstanding features: In the northern section it contains hundreds of large and small lakes in a wilderness of forest and mountain; it contains Moosehead Lake, largest in the State; it is the site of mile-high Mount Katahdin and Baxter State Park; and its southern section, containing most of its built up villages and towns, is an important agricultural and industrial area.

The Moosehead Lake region is one of Maine's most popular hunting, fishing and vacationing areas. Forty miles long and twenty miles wide, the lake contains several large islands, many bays and inlets and is fed by scores of streams and lesser lakes. Hemmed by rugged mountains and flanked by the virgin forest, Moosehead has been a haven of rest and a center of sports and recreation for many years. Its waters provide unexcelled trout, togue and salmon fishing from the time the ice goes out, early in May, until the hunting season in October. From Moosehead Lake start five famous canoe trips: The East and West Branch trips, the Allagash, the Allagash Circuit and the St. John River trip.

Greenville, at the foot of the lake, is the starting point for excellent roads that strike for many miles northward along both sides of the lake into the wilderness regions beyond. To the west one road leads through Greenville Junction to East and West Outlets, Rockwood and Seboomook to Caucomgomoc Lake 80 miles to the north. To the northeast the other road leads through Lily Bay and Kokadjo to Ripogenus Dam at the foot of Chesuncook Lake and around Harrington Lake to Baxter State Park and the Katahdin region.

From Greenville also lake boats travel to various resort centers on the lake. Opposite Rockwood and West Outlet, Kineo Mountain rises sheer from the heart of the lake. A beautiful resort spot, it is the largest mass of hornblende in the world and Indian implements and weapons made from its flint have been found as far west as the Mississippi. A few miles southeast of Greenville, on Little Wilson Stream, a fifty-seven foot falls in a sheer slate canyon makes one of the prettiest cascades in the State. Big Squaw Mountain, near Greenville Junction, is easily climbed and affords a magnificent view of the entire area. East and West Outlet, Rockwood and Seboomook, all on the western shore of the lake, are renowned vacation and resort centers. Along this road is a state fish hatchery containing more than three miles of runs and breeding pools where hundreds of thousands of landlocked salmon are raised.

Lily Bay is almost a lake in itself and is separated from the main lake by Sugar Island. It is a fishing center of high repute and many record salmon and trout

(Continued on Page 70)

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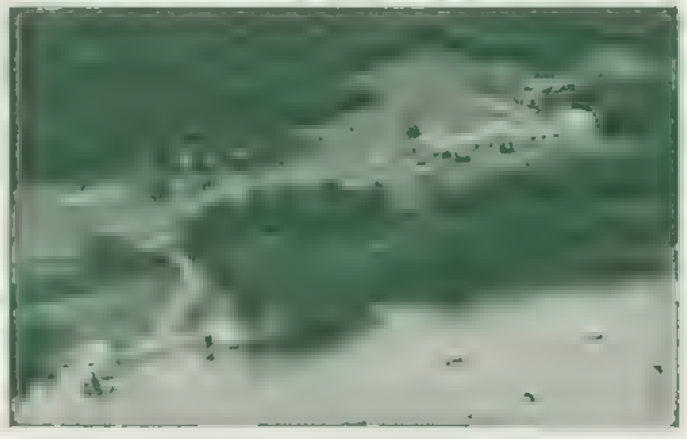

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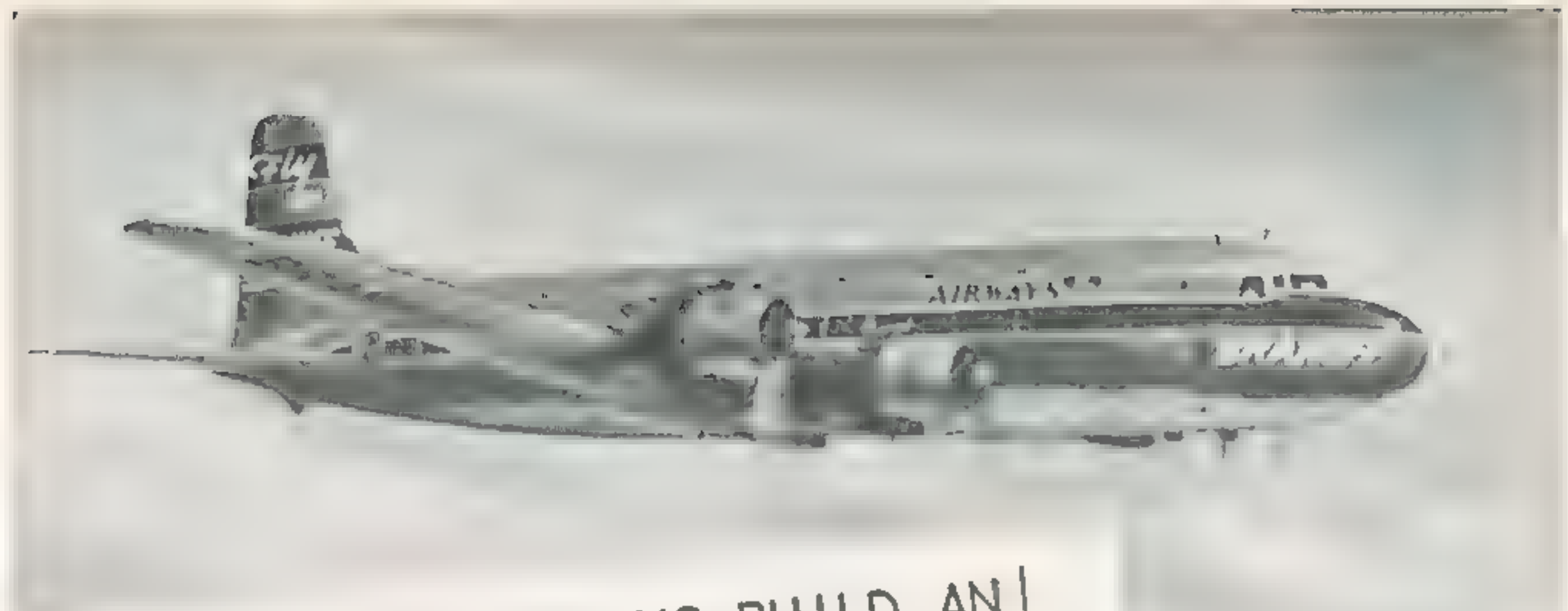

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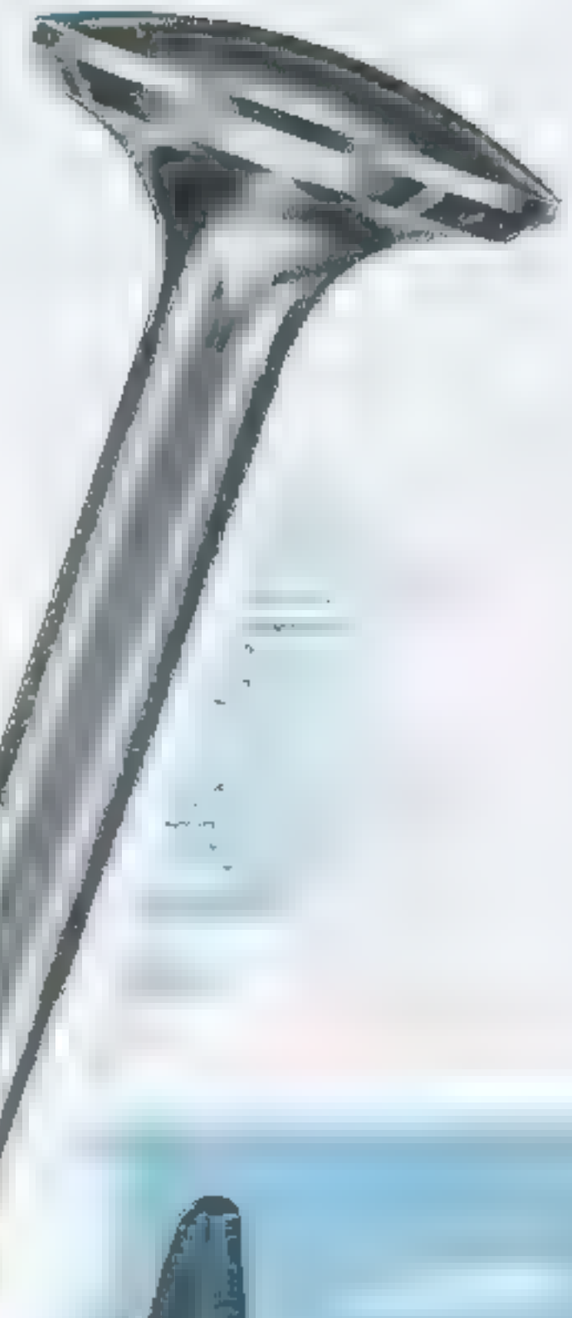
Another Thompson first in the highly specialized field of aircraft valve engineering.



Boeing C-97A
"Stratofreighter"
—Trans-Pacific Cargo.
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Thompson Products, Inc.

VALVE DIVISION • EUCLID, OHIO

How TIMKEN® bearings help Hiller flying ambulances save lives

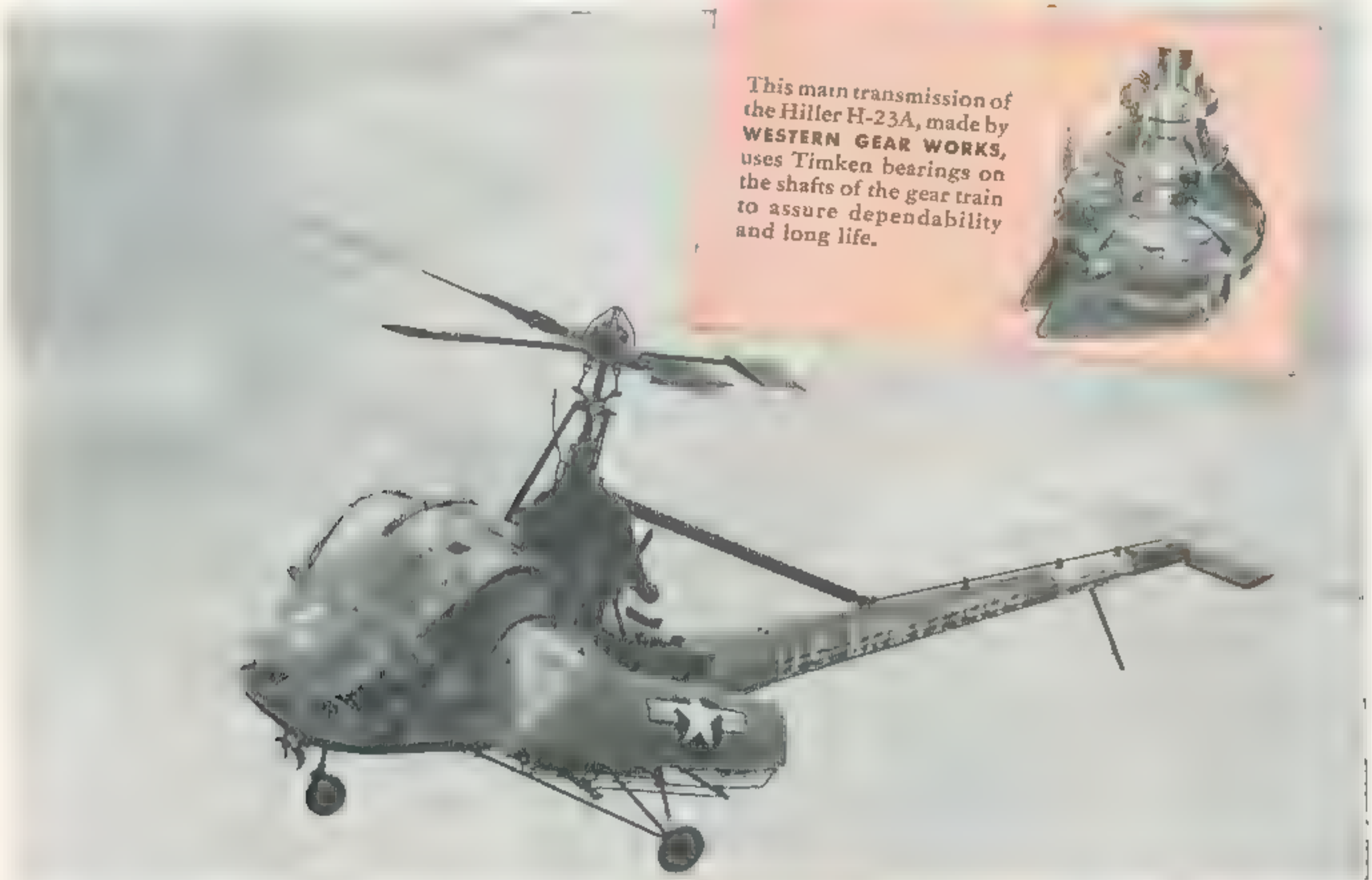
IN this H-23A, U. S. Army version of the Hiller helicopter used for evacuating battle casualties, power is delivered to rotary wings through precision-built, Timken®-equipped drive units. The unit featured below, made by Western Gear Works, Lynwood plant, California, uses Timken tapered roller bearings to assure dependability and long life. The tail rotor gear box also uses Timken bearings.

Timken bearings take radial and thrust loads in any combination; and they have greater load-carrying capacity due to the line contact between the rollers and races. As a result, shafts are held in positive alignment, gears mesh accurately, and wear on moving parts is minimized.

The true rolling motion and incredibly smooth surface finish of Timken bearings practically eliminate friction. And because Timken bearings permit tighter closures, lubrication time and materials are greatly reduced. Timken bearings are engineered for the job, made of tough wear-resistant Timken fine alloy steel and precision manufactured.

For more than fifty years, the dependable performance of Timken bearings has made Timken-equipped products first choice throughout industry. When you specify bearings, specify Timken bearings. And when you buy new equipment, look for the trade-mark "Timken" on every bearing. The Timken Roller Bearing Company, Canton 6, Ohio. Cable address: "TIMROSCO".

This symbol on a product means its bearings are the best.



This main transmission of the Hiller H-23A, made by **WESTERN GEAR WORKS,** uses Timken bearings on the shafts of the gear train to assure dependability and long life.

FINISHED TO CLOSER TOLERANCES

Finishing to incredible smoothness accounts for much of the precise, smooth rolling performance of Timken bearings. This honing operation is typical of the amazingly accurate manufacturing methods at the Timken Company.

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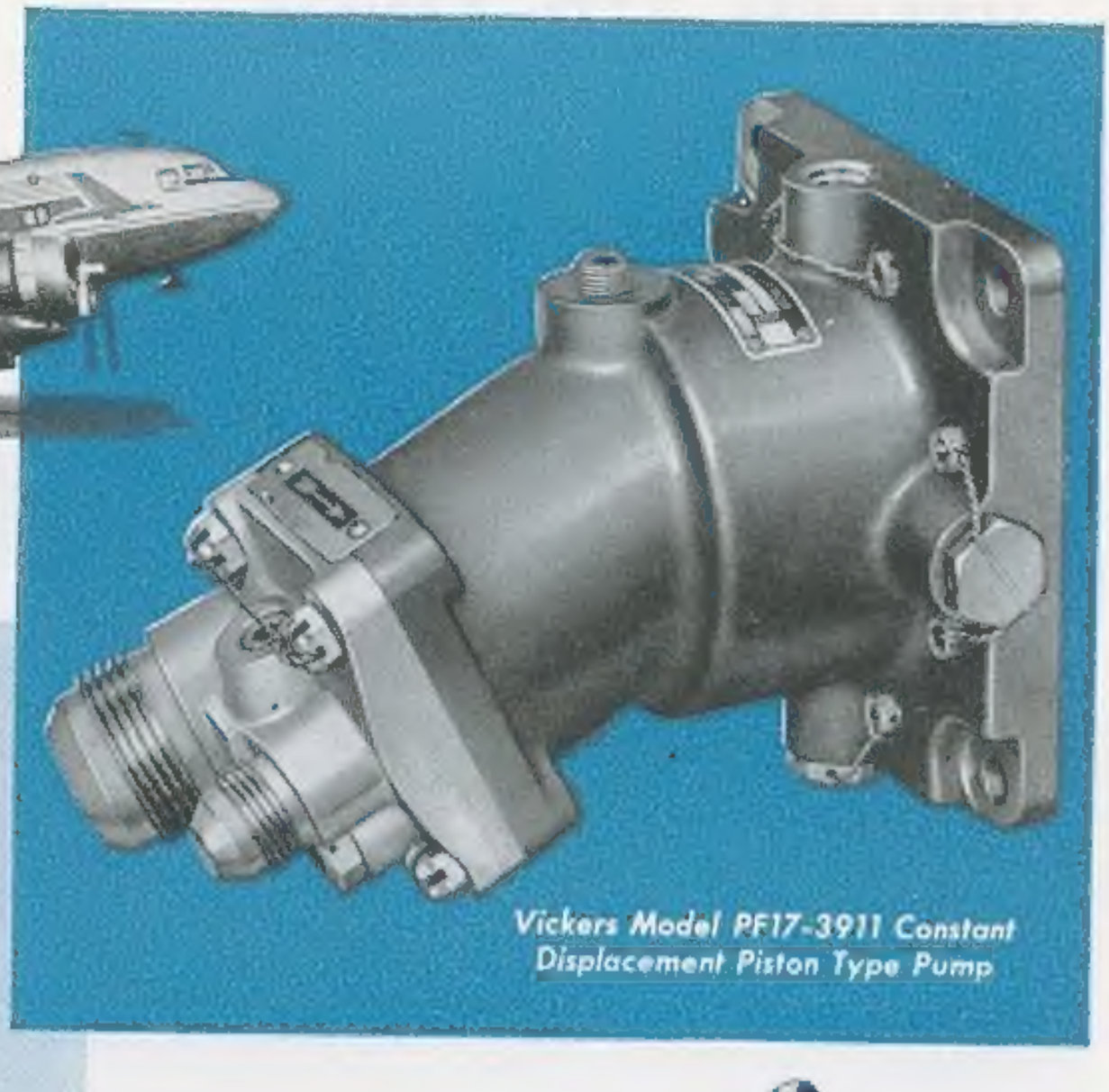
Capital AIRLINES

Specifies VICKERS PUMPS

for its fleet of SUPER DC-3's



Vickers Model PF17-3911 Constant Displacement Piston Type Pump

REASON:

"The performance and exceptionally low overhaul costs of Vickers Pumps on our fleet of DC-4's" —Capital Airlines

The superior performance record of Vickers Constant Displacement Piston Type Pumps on their twenty-five DC-4's is the reason why Capital Airlines specified these Vickers Pumps for their new fleet of Super DC-3's.

Important among the characteristics of these Vickers Pumps are: (1) exceptionally high volumetric and overall efficiency, (2) very low weight per horsepower, (3) outstanding dependability and unusually long life. Other significant considerations were the importance of standardization and low overhaul costs.

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ENGINEERS AND BUILDERS OF OIL HYDRAULIC EQUIPMENT SINCE 1921

Washington County

Washington County, on Maine's and the Nation's easternmost border, aptly has been called the Sunrise County of the U. S. A. Although its coastal region was one of the first to be explored and settled in Maine, its 2,628 square miles, consisting mostly of woods, lakes and streams, contain extensive areas where the human foot has but infrequently trod. As a result it contains some of the most notable hunting and fishing territory in the State, with deer, bear, small game and game birds in profusion and sport fish of unusual size up to the king of all rod and reel fighters, the Atlantic salmon.

With an abundance of forests, fisheries, agricultural lands and waterpower, Washington County is an area rich in raw materials and yet with tremendous room for developments. It is the center of the sardine canning industry in the United States; its broad coastal plains produce enormous quantities of the world's best blueberries, where 75 per cent of the world's packed supply is processed; its fertile soil is the basis for extensive potato, livestock and poultry raising; and lumbering, pulp and paper have been important industries for many decades.

Calais and Eastport are the only cities in the county, which also contains forty-four organized townships.

Calais is situated in the beautiful St. Croix River Valley, with an international bridge across the river to St. Stephen, N. B. Collaboration between the two communities is world-famous, with an interchange of trade, commerce and essential municipal service. Calais is a trading and manufacturing center for the area, as well as a transportation hub. It has several small hotels and tourist homes, fine retail stores and it taps an extensive and famous recreational area of large lakes, forests and streams.

Eastport is the most easterly city in the United States, situated on Moose Island and connected with the mainland by bridge. It is at the entrance to the great Passamaquoddy Bay area, with a large and deep harbor and has long been known as the center of the sardine canning industry of the United States. Processing and shipping of all other seafoods, as well as other industries, such as pearl essence, fertilizer, boat-building, and many minor business activities make it a lively industrial and trading center.

Eastport is also the site of Quoddy Village, headquarters of the famous project to harness the ocean tides for electric power. The tides rise and fall 18 to 27 feet in this area. Dormant for more than ten years, efforts are now being made to revive the giant project as an international undertaking.

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Bass, Salmon
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Photos courtesy Erie Railroad

EVERY minute motive power is laid up means a loss in valuable revenue. Whiting Drop Tables are specially designed to help reduce lay-up time.

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Whiting Drop Tables are available in a variety of styles and sizes. They will speed the job of dropping wheels or complete trucks on either Diesel-electric or steam locomotives, tenders, and coaches. Write for New Bulletin DT-C-404 today.

Whiting Drop Table in lowered position.

Trucks ready for release. Note—platform cover at release track automatically raised by spacer posts.

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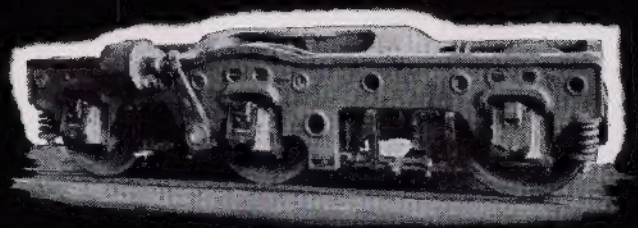

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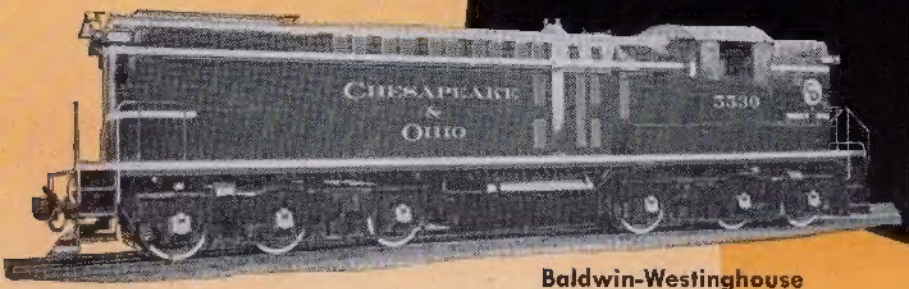

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